

Mopar(FCA US LLC Service & Customer Care Division)

Part Number: 671 Version No: 2.2 Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

SECTION 1 Identification

Product Identifier

Product name	MOPAR Fuel Injector & Combustion Chamber Cleaner
Synonyms	68628280AA, 68621322AA, 68621326AA
Proper shipping name	Flammable liquids, n.o.s. (contains xylene, distillates, petroleum, light, hydrotreated and distillates, petroleum, middle, sweetened)
Other means of identification	Not Available

Recommended use of the chemical and restrictions on use

Relevant identified uses Fuel System Cleaner

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

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Registered company name	Mopar(FCA US LLC Service & Customer Care Division)	Mopar (FCA US LLC Service & Customer Care Division)
Address	26311 Lawrence Avenue, Center Line Michigan 48015 United States	26311 Lawerence Avenue, Center Line Michigan 48015 United States
Telephone	1-800-846-6727	1-800-846-6727
Fax	Not Available	Not Available
Website	Not Available	Not Available
Email	moparsds@fcagroup.com	moparsds@fcagroup.com

Emergency phone number

Association / Organisation	CHEMTREC	CHEMTREC
Emergency telephone numbers	+1 703-741-5970	+1 703-741-5970
Other emergency telephone numbers	248-512-8002	248-512-8002

SECTION 2 Hazard(s) identification

Classification of the substance or mixture

ChemWatch Hazard Ratings

	Min	Max	
Flammability	2		
Toxicity	2	1	0 = Minimum
Body Contact	2	1	1 = Low 2 = Moderate 3 = High 4 = Extreme
Reactivity	0	1	
Chronic	3		



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification

Flammable Liquids Category 3, Carcinogenicity Category 1B, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Acute Toxicity (Dermal) Category 4, Specific Target Organ Toxicity - Repeated Exposure Category 2, Acute Toxicity (Inhalation) Category 4, Skin Corrosion/Irritation Category 2, Reproductive Toxicity Category 2

Label elements

Chemwatch Hazard Alert Code: 3

Issue Date: 09/21/2022 Print Date: 09/21/2022 L.GHS.USA.EN



Signal word Danger

Hazard statement(s)

H226	Flammable liquid and vapour.
H350	May cause cancer.
H336	May cause drowsiness or dizziness.
H312	Harmful in contact with skin.
H373	May cause damage to organs through prolonged or repeated exposure.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H361	Suspected of damaging fertility or the unborn child.

Hazard(s) not otherwise classified

Not Applicable

Precautionary statement(s) General

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P260	Do not breathe mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves and protective clothing.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing mist/vapours/spray.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash all exposed external body areas thoroughly after handling.

Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.
P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.
P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	

Precautionary statement(s) Disposal

P501 Dispo

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
1330-20-7*	46.4-58	xylene
100-41-4*	8.7-11.6	ethylbenzene
64742-47-8*	10-30	distillates, petroleum, light, hydrotreated
107-98-2*	19.9-20	1-Methoxy-2-Propanol
64741-86-2*	4.8-5.988	distillates, petroleum, middle, sweetened
Not Available	3.6-4.788	Polyether Amine
64742-94-5*	<=0.588	Naphtha, Heavy Aromatic
91-57-6*	<0.15288	2-methylnaphthalene
90-12-0*	<0.0735	1-methylnaphthalene
91-20-3*	<1	naphthalene
108-88-3*	0.058-0.29	Aromatic Hydrocarbon
1589-47-5*	<=0.1	propylene glycol monomethyl ether - beta isomer

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 First-aid measures

Description of first aid measures

Eye Contact	 If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Fire-fighting measures

Extinguishing media

Special hazards arising from the substrate or mixture		
Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result	

Special protective equipment and precautions for fire-fighters

Fire Fighting	
Fire/Explosion Hazard	 Liquid and vapour are flammable. Moderate fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Moderate explosion hazard when exposed to heat or flame. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic/ irritating fumes. Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions.

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb small quantities with vermiculite or other absorbent material. Wipe up. Collect residues in a flammable waste container.
Major Spills	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by all means available, spillage from entering drains or water courses. Consider evacuation (or protect in place). No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Water spray or fog may be used to disperse / absorb vapour. Contain or absorb spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling

Precautions for safe handling	
Safe handling	 Containers, even those that have been emptied, may contain explosive vapours. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. Contains low boiling substance: Storage in sealed containers may result in pressure buildup causing violent rupture of containers not rated appropriately. Check for bulging containers. Vent periodically Always release caps or seals slowly to ensure slow dissipation of vapours Avoid all personal contact, including inhalation. Wear protective clothing when risk of overexposure occurs. Use in a well-ventilated area. Porvent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid generation of static electricity. DO NOT use plastic buckets. Earth all lines and equipment. Use spark-free tools when handling. Avoid physical damage to containers. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Avoid physical damage to containers. Avoid physical damage to containers. Avoir clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.
Other information	 Store in original containers in approved flammable liquid storage area. Store away from incompatible materials in a cool, dry, well-ventilated area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. No smoking, naked lights, heat or ignition sources. Storage areas should be clearly identified, well illuminated, clear of obstruction and accessible only to trained and authorised personnel - adequate security must be provided so that unauthorised personnel do not have access. Store according to applicable regulations for flammable materials for storage tanks, containers, piping, buildings, rooms, cabinets, allowable quantities and minimum storage distances. Use non-sparking ventilation systems, approved explosion proof equipment and intrinsically safe electrical systems. Have appropriate extinguishing capability in storage area (e.g. portable fire extinguishers - dry chemical, foam or carbon dioxide) and flammable gas detectors. Keep adsorbents for leaks and spills readily available. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. In addition, for tank storages (where approved vessels and away from incompatible materials. For bulk storages, consider use of floating roof or nitrogen blanketed vessels; where venting to atmosphere is possible, equip storage tank vents with flame arrestors; inspect tank vents during winter conditions for vapour/ ice build-up. Storage tanks should be above ground and diked to hold entire contents.

Conditions for safe storage, including any incompatibilities

Suitable container	 Packing as supplied by manufacturer. Plastic containers may only be used if approved for flammable liquid. Check that containers are clearly labelled and free from leaks. For low viscosity materials (i) : Drums and jerry cans must be of the non-removable head type. (ii) : Where a can is to be used as an inner package, the can must have a screwed enclosure. For manufactured product having a viscosity of at least 2680 cSt. (23 deg. C) For manufactured product that requires stirring before use and having a viscosity of at least 20 cSt. (25 deg. C): (i) Removable head packaging; (ii) Cans with friction closures and (iii) low pressure tubes and cartridges may be used. Where combination packages are used, and the inner packages are of glass, there must be sufficient inert cushioning material in contact with inner and outer packages. In addition, where inner packagings are glass and contain liquids of packing group I there must be sufficient inert absorbent to absorb any spillage, unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.
Storage incompatibility	Avoid reaction with oxidising agents

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

L	INGREDIENT DATA	
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Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-1	xylene	Xylenes (o-, m-, p-isomers)	100 ppm / 435 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	ethylbenzene	Ethyl benzene	100 ppm / 435 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	ethylbenzene	Ethyl benzene	100 ppm / 435 mg/m3	545 mg/m3 / 125 ppm	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	distillates, petroleum, light, hydrotreated	Oil mist, mineral	5 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	1-Methoxy-2-Propanol	Propylene glycol monomethyl ether	100 ppm / 360 mg/m3	540 mg/m3 / 150 ppm	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	distillates, petroleum, middle, sweetened	Oil mist, mineral	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	2-methylnaphthalene	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	2-methylnaphthalene	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	2-methylnaphthalene	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	2-methylnaphthalene	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	2-methylnaphthalene	Particulates not otherwise regulated	Not Available	Not Available	Not Available	See Appendix D
US OSHA Permissible Exposure Limits (PELs) Table Z-1	naphthalene	Naphthalene	10 ppm / 50 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	naphthalene	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	naphthalene	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	naphthalene	Naphthalene	10 ppm / 50 mg/m3	75 mg/m3 / 15 ppm	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-2	Aromatic Hydrocarbon	Toluene	200 ppm	300 ppm	500 (10 min) ppm	(Z37.12-1967)
US NIOSH Recommended Exposure Limits (RELs)	Aromatic Hydrocarbon	Toluene	100 ppm / 375 mg/m3	560 mg/m3 / 150 ppm	Not Available	Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
xylene	Not Available	Not Available	Not Available
ethylbenzene	Not Available	Not Available	Not Available
distillates, petroleum, light, hydrotreated	140 mg/m3	1,500 mg/m3	8,900 mg/m3
1-Methoxy-2-Propanol	100 ppm	160 ppm	660 ppm
distillates, petroleum, middle, sweetened	140 mg/m3	1,500 mg/m3	8,900 mg/m3
2-methylnaphthalene	9 mg/m3	54 mg/m3	320 mg/m3
1-methylnaphthalene	20 mg/m3	61 mg/m3	360 mg/m3

Ingredient	TEEL-1	TEEL-2		TEEL-3
naphthalene	15 ppm	83 ppm		500 ppm
Aromatic Hydrocarbon	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
xylene	900 ppm		Not Available	
ethylbenzene	800 ppm		Not Available	
distillates, petroleum, light, hydrotreated	2,500 mg/m3		Not Available	
1-Methoxy-2-Propanol	Not Available		Not Available	
distillates, petroleum, middle, sweetened	2,500 mg/m3		Not Available	
Polyether Amine	Not Available		Not Available	
Naphtha, Heavy Aromatic	Not Available		Not Available	
2-methylnaphthalene	Not Available		Not Available	
1-methylnaphthalene	Not Available		Not Available	
naphthalene	250 ppm		Not Available	
Aromatic Hydrocarbon	500 ppm		Not Available	
propylene glycol monomethyl ether - beta isomer	Not Available		Not Available	

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating Occupational Exposure Band Limit			
Naphtha, Heavy Aromatic	С	> 1 to \leq 10 parts per million (ppm)		
1-methylnaphthalene	E	≤ 0.1 ppm		
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the			

Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

MATERIAL DATA

Sensory irritants are chemicals that produce temporary and undesirable side-effects on the eyes, nose or throat. Historically occupational exposure standards for these irritants have been based on observation of workers' responses to various airborne concentrations. Present day expectations require that nearly every individual should be protected against even minor sensory irritation and exposure standards are established using uncertainty factors or safety factors of 5 to 10 or more. On occasion animal no-observable-effect-levels (NOEL) are used to determine these limits where human results are unavailable. An additional approach, typically used by the TLV committee (USA) in determining respiratory standards for this group of chemicals, has been to assign ceiling values (TLV C) to rapidly acting irritants and to assign short-term exposure limits (TLV STELs) when the weight of evidence from irritation, and elimination half-life. However this system is being replaced to be consistent with the European Union (EU) Scientific Committee for Occupational Exposure Limits (SCOEL); this is more closely allied to that of the USA.

OSHA (USA) concluded that exposure to sensory irritants can:

- cause inflammation
- cause increased susceptibility to other irritants and infectious agents
- lead to permanent injury or dysfunction
- permit greater absorption of hazardous substances and
- acclimate the worker to the irritant warning properties of these substances thus increasing the risk of overexposure.

NOTE N: The classification as a carcinogen need not apply if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen. This note applies only to certain complex oil-derived substances in Annex VI.

European Union (EU) List of harmonised classification and labelling hazardous substances, Table 3.1, Annex VI, Regulation (EC) No 1272/2008 (CLP) - up to the latest ATP

Exposure controls

Appropriate engineering controls	 Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. * Employees exposed to confirmed human carcinogens should be authorized to do so by the employer, and work in a regulated area. Work should be undertaken in an isolated system such as a "glove-box". Employees should wash their hands and arms upon completion of the assigned task and before engaging in other activities not associated with the isolated system, including piping systems, with any sample ports or openings closed while the carcinogens are contained within. Open-vessel systems are prohibited. Exhaust air should not be discharged to regulated areas, non-regulated areas or the external environment unless decontaminated. Clean make-up air should not be discharged to regulated areas, non-regulated areas or the external environment unless decontaminated. Clean make-up air should not be discharged to regulated areas, non-regulated areas or the external environment unless decontaminated. Clean make-up air should not be discharged to shower upon removal of the garments and hood. For maintenance and decontamination activities, authorized employees entering t
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MOPAR Fuel Injector & Combustion Chamber Clean	er
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Personal protection	
Eye and face protection	 Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
Skin protection	See Hand protection below
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber
Body protection	See Other protection below
Other protection	 Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent] Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filter-type respirators with filters for dusts, mists and fumes, or air purifying canisters or cartridges. A respirator affording higher levels of protection may be substituted. [AS/NZS 1715 or national equivalent] Emergency deluge showers and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with locations where direct exposure is likely. Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers must be identified with suitable labels. For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments, including gloves, boots and continuous-air supplied hood. Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood. Overalls. PVC protective suit may be required if exposure severe. Eyewash unit. Ensure there is ready access to a safety shower. Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity. For large scale or continuous use wear tight-weave non-static

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection: MOPAR Fuel Injector & Combustion Chamber Cleaner

Material	СРІ
BUTYL	С
BUTYL/NEOPRENE	С
CPE	С
HYPALON	С
NAT+NEOPR+NITRILE	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PE/EVAL/PE	С
PVA	С
PVC	С
PVDC/PE/PVDC	С
SARANEX-23	С
SARANEX-23 2-PLY	С
TEFLON	С
VITON	С

С

С

MOPAR Fuel Injector & Combustion Chamber Cleaner

VITON/CHLOROBUTYL

VITON/NEOPRENE

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Colourless to light yellow		
Physical state	Liquid	Relative density (Water = 1)	0.87
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	464
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	57.8	Molecular weight (g/mol)	Not Available
Flash point (°C)	25	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Flammable.	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	78
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (Not Available%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	78%

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled	Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful. The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless inhalation of vapours, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by narcosis, reduced alertness, loss of reflexes, lack of coordination and vertigo.
Ingestion	The material is not thought to produce adverse health effects following ingestion (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum.

Skin Contact	Skin contact with the material may be harmful; systemic effects may result following absorption. Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis. The material may accentuate any pre-existing dermatitis condition Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.			
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).			
Chronic	strong presumption that human exposure to the material may result i - appropriate long-term animal studies - other relevant information Exposure to the material may cause concerns for human fertility, ger to cause a strong suspicion of impaired fertility in the absence of toxi levels as other toxic effects, but which are not a secondary non-spec Studies with some glycol ethers (principally the monoethylene glycol and kidney function changes. The metabolic acetic acid derivatives o be the proximal reproductive toxin in animals. The potency of these r Consequently glycol ethers with longer substituents (e.g diethylene g reproductive effects. One of the most sensitive indicators of toxic effect erythrocytic osmotic fragility in rats Which produces haemolytic anae (blood in the urine) at higher exposure levels or as a result of chronic Glycol ethers based on propylene oxides, propylene glycol ethers, di commercially, as alpha-isomers (because of thermodynamic conside acids as metabolites and therefore do not produce erythrocyte fragili	egarded as carcinogenic to humans. There is sufficient evidence to provide a n cancer on the basis of: erally on the basis that results in animal studies provide sufficient evidence c effects, or evidence of impaired fertility occurring at around the same dose fifc consequence of other toxic effects. s) and their esters indicate reproductive changes, testicular atrophy, infertility f glycol ethers (alkoxyacetic acids), not the ether itself, have been found to netabolites decreases significantly as the chain length of the ether increases. lycols, triethylene glycols) have not generally been associated with cts observed from many of the glycol ethers is an increase in the mia). This appears to be related to the development of haemoglobinuria		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
MOPAR Fuel Injector & Combustion Chamber Cleaner	Not Available	Not Available		
xylene	TOXICITY Inhalation (Guinea Pig)LC: 450 ppm/4h ^[2] Inhalation (Human) TCLo: 200 ppm ^[2] Inhalation (Human) TCLo: 200 ppm/4h ^[2] Inhalation (Human) TCLo: 200 ppm/4h ^[2] Inhalation (man) LCLo: 10000 ppm/6h ^[2] Inhalation (Rat) LC50; 5000 ppm/4h ^[2] Intraperitoneal (Mouse) LD50: 1548 mg/kg ^[2] Intraperitoneal (Rat) LD50: 2459 mg/kg ^[2] Intravenous (Rabbit) LD: 129 mg/kg ^[2] Oral (Human)LD: 50 mg/kg ^[2] Oral (Human)LDLo: 50 mg/kg ^[2] Oral (Mouse) LD50; 2119 mg/kg ^[2] Oral (Rat) LD50; 4300 mg/kg ^[2] Subcutaneous (Rat) LD50: 1700 mg/kg ^[2]	IRRITATION Eye (human): 200 ppm irritant Eye (rabbit): 5 mg/24h SEVERE Eye (rabbit): 87 mg mild Eye: adverse effect observed (irritating) ^[1] Skin (rabbit):500 mg/24h moderate Skin: adverse effect observed (irritating) ^[1]		
ethylbenzene	TOXICITY Dermal (rabbit) LD50: 17800 mg/kg ^[2] Inhalation (Human) TCLo: 100 ppm/8h ^[2] Inhalation (Rat)LC: 4000 ppm/4h ^[2] Inhalation (Rat)LCLo: 4000 ppm/4h ^[2] Inhalation (Rat)LCLo: 4000 ppm/4h ^[2] Inhalation (Rat)LCD: 2642 mg/kg ^[2] Oral (Rat) LD50; 3500 mg/kg ^[2]	IRRITATION Eye (rabbit): 500 mg - SEVERE Eye: no adverse effect observed (not irritating) ^[1] Skin (rabbit): 15 mg/24h mild Skin: no adverse effect observed (not irritating) ^[1]		
distillates, petroleum, light, hydrotreated	TOXICITY Dermal (rabbit) LD50: >2000 mg/kg ^[2] Inhalation(Rat) LC50; >4.3 mg/l4h ^[1] Oral (Rat) LD50; >5000 mg/kg ^[2]	IRRITATION Eye: no adverse effect observed (not irritating) ^[1] Skin: adverse effect observed (irritating) ^[1]		

	ΤΟΧΙCΙΤΥ	IRRITATION
1-Methoxy-2-Propanol	Dermal (rabbit) LD50: 13000 mg/kg ^[2]	Eye (rabbit) 230 mg mild
	Inhalation (Human) TCLo: 3000 ppm ^[2]	Eye (rabbit) 500 mg/24 h mild
	Inhalation(Rat) LC50; 10000 ppm/5 h. ^[2]	Eye (rabbit): 100 mg SEVERE
	Oral (Rat) LD50; 3739 mg/kg ^[2]	Skin (rabbit) 500 mg open - mild
	тохісіту	IRRITATION
distillates, petroleum, middle,	Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Not Available
sweetened	Inhalation(Rat) LC50; 1.72 mg/l4h ^[1]	
	Oral (Rat) LD50; >5000 mg/kg ^[2]	
Polyether Amine	ΤΟΧΙΟΙΤΥ	IRRITATION
r olyether Alline	Not Available	Not Available
	ΤΟΧΙCΙΤΥ	IRRITATION
Nonhtha Haavy Aromatia	Dermal (rabbit) LD50: >3160 mg/kg ^[2]	Eye (rabbit): Irritating
Naphtha, Heavy Aromatic	Oral (Rat) LD50; 3200 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]
		Skin: adverse effect observed (irritating) ^[1]
	ΤΟΧΙΟΙΤΥ	IRRITATION
2-methylnaphthalene	Oral (Rat) LD50; 1630 mg/kg ^[2]	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
1-methylnaphthalene	Oral (Rat) LD50; 1840 mg/kg ^[2]	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
	dermal (rat) LD50: >2500 mg/kg ^[2]	Eye (rabbit): 100 mg - mild
	Oral (child) LDLo: 100 mg/kg ^[2]	Skin (rabbit):495 mg (open) - mild
naphthalene	Oral (Rat) LD50; 490 mg/kg ^[2]	
	Unrep. (human) LDLo: 29 mg/kg ^[2]	
	Unrep. (man) LDLo: 74 mg/kg ^[2]	
	тохісіту	IRRITATION
	Dermal (rabbit) LD50: 12124 mg/kg ^[2]	Eye (rabbit): 2mg/24h - SEVERE
	Inhalation (Human) TCLo: 100 ppm ^[2]	Eye (rabbit):0.87 mg - mild
	Inhalation (man) TCLo: 200 ppm ^[2]	Eye (rabbit):100 mg/30sec - mild
Aromatic Hydrocarbon	Inhalation(Rat) LC50; >26700 ppm/1h ^[2]	Eye: adverse effect observed (irritating) ^[1]
	Oral (Human)LDLo: 50 mg/kg ^[2]	Skin (rabbit):20 mg/24h-moderate
	Oral (Rat) LD50; 636 mg/kg ^[2]	Skin (rabbit):500 mg - moderate
		Skin: adverse effect observed (irritating) ^[1]
		Skin: no adverse effect observed (not irritating) ^[1]
propylene glycol monomethyl	тохісіту	IRRITATION
ether - beta isomer	Not Available	Not Available
Legend:	1. Value obtained from Europe ECHA Registered Substan specified data extracted from RTECS - Register of Toxic E	ces - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise iffect of chemical Substances
	Reproductive effector in rats	
xylene	The substance is classified by IARC as Group 3:	

xylene	The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing.
ethylbenzene	Liver changes, utheral tract, effects on fertility, foetotoxicity, specific developmental abnormalities (musculoskeletal system) recorded. Ethylbenzene is readily absorbed following inhalation, oral, and dermal exposures, distributed throughout the body, and excreted primarily through urine. There are two different metabolic pathways for ethylbenzene with the primary pathway being the alpha-oxidation of ethylbenzene to 1-phenylethanol, mostly as the R-enantiomer. The pattern of urinary metabolite excretion varies with different mammalian species. In humans, ethylbenzene is excreted in the urine as mandelic acid and phenylgloxylic acids; whereas rats and rabbits excrete hippuric acid and phenaceturic acid as the main metabolites. Ethylbenzene can induce liver enzymes and hence its own metabolism as well as the metabolism of other substances. Ethylbenzene has a low order of acute toxicity by the oral, dermal or inhalation routes of exposure. Studies in rabbits indicate that ethylbenzene is irritating to the skin and eyes. There are numerous repeat dose studies available in a variety of species, these include: rats, mice, rabbits, guinea pig and rhesus monkeys. Hearing loss has been reported in rats (but not guinea pigs) exposed to relatively high exposures (400 ppm and greater) of ethylbenzene In chronic toxicity/carcinogenicity studies, both rats and mice were exposed via inhalation to 0, 75, 250 or 750 ppm for 104 weeks. In rats, the kidney was the target organ of toxicity, with renal tubular hyperplasia noted in both males and females at the 750 ppm level only. In mice, the liver

		and lung were the principal target organs of toxicity. In male mice at 750 ppm, lung toxicity was described as alveolar epithelial metaplasia, and liver toxicity was described as hepatocellular syncitial alteration, hypertrophy and mild necrosis; this was accompanied by increased follicular cell hyperplasia in the thyroid. As a result the NOAEL in male mice was determined to be 250 ppm. In female mice, the 750 ppm dose group had an increased incidence of eosinophilic foci in the liver (44% vs 10% in the controls) and an increased incidence in follicular cell hyperplasia in the thyroid gland. In studies conducted by the U.S. National Toxicology Program, inhalation of ethylbenzene at 750 ppm resulted in increased lung tumors in male mice, liver tumors in female mice, and increased kidney tumors in male and female rats. No increase in tumors was reported at 75 or 250 ppm. Ethylbenzene is considered to be an animal carcinogen, however, the relevance of these findings to humans is currently unknown. Although no reproductive toxicity studies have been conducted on ethylbenzene, repeated-dose studies indicate that the reproductive organs are not a target for ethylbenzene was negative in bacterial gene mutation tests and in a yeast assay on mitotic recombination. NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA.
	1-Methoxy-2-Propanol	up to 3000 ppm. Foetotoxic effects were seen in rats but not in rabbits at this concentration; maternal toxicity was noted in both species.
di	istillates, petroleum, middle, sweetened	For axiation fuels: Recreasent extragation and hydrodesulfurised) and related jet fuels (e.g., JP-5, JP-6, Jet-A, Jet-A1) were selected for characterisation of health affects considered representative of the axiation fuels. Kerosene is similar to aviation tubine fuel (CAS RN e1741-86-2) from both a process and physical-chemical perspective, but is related to its aviation tubine fuel, and are therefore also releaved to the same additives as final aviation to the 3-DF. JP-6 and Ju-A are million processity. But is related to the same additives as final aviation tubines. Area during the million processity and commercial grades of aviation tubine fuel, and are therefore also releaved to the same additives as final aviation tables. They are not skin sensitizers, but can produce eye and skin intritation (mild and mild-to-severe, respectively) A one-bour nosen-only sepsoure of nearmones. They are not skin sensitizers, but can produce eye and skin intritation (mild and mild-to-severe, respectively) A one-bour nosen-only sepsoure of personare to 1000 mg/m3 JP-8 caused immediate immunosuppression, a significant loss of viable immuno cells and significantly reduced immune organ weights Additional one-hour exposures resulted in greater immunosuppression. Skin intration were only additioned to 200 mg/kb pure yeek of 4 veeks intra-several evel blocases of the delayed-type fuely and aviation facts to 401 for the several after demma sepsoure to 10.4 at 45 mg/kb pure persons. Skin intration were only additioned and the only advorated on the delayed-type fuely several more colserved in nabiotation the intra-several and the dema sepsoure to 10.4 at 45 mg/kb pure persons. Skin minutosuppression (as inflating the proved after dema descense and ferma descense and the delayed-type fuely several more descense during the torochical explanation and vertices collisater type several to 20 mg/kb everal and vertices and the delayed of 4 veeks immunosuppression was not observed in and decreases of the several vertices and the
	Naphtha, Heavy Aromatic	For petroleum: This product contains benzene, which can cause acute myeloid leukaemia, and n-hexane, which can be metabolized to compounds which are toxic to the nervous system. This product contains toluene, and animal studies suggest high concentrations of toluene lead to hearing loss. This product contains ethyl benzene and naphthalene, from which animal testing shows evidence of tumour formation. Cancer-causing potential: Animal testing shows inhaling petroleum causes tumours of the liver and kidney; these are however not considered to be relevant in humans. Mutation-causing potential: Most studies involving gasoline have returned negative results regarding the potential to cause mutations, including all recent studies in living human subjects (such as in petrol service station attendants). Reproductive toxicity: Animal studies show that high concentrations of toluene (>0.1%) can cause developmental effects such as lower birth weight and developmental effects when the foeture.

weight and developmental toxicity to the nervous system of the foetus. Other studies show no adverse effects on the foetus.

	Human effects: Prolonged or repeated contact may cause defatting of the skin which can lead to skin inflammation and may make the skin more susceptible to irritation and penetration by other materials. Animal testing shows that exposure to gasoline over a lifetime can cause kidney cancer, but the relevance in humans is questionable.
1-methylnaphthalene	Allergic reactions which develop in the respiratory passages as bronchial asthma or rhinoconjunctivitis, are mostly the result of reactions of the allergen with specific antibodies of the IgE class and belong in their reaction rates to the manifestation of the immediate type. In addition to the allergen-specific potential for causing respiratory sensitisation, the amount of the allergen, the exposure period and the genetically determined disposition of the exposure period and the genetically determined or acquired, for example, during infections or exposure to irritant substances. Immunologically the low molecular weight substances become complete allergens in the organism either by binding to peptides or proteins (haptens) or after metabolism (prohaptens). Particular attention is drawn to so-called atopic diathesis which is characterised by an increased susceptibility to allergic rhinitis, allergic bronchia asthma and atopic ezema (neurodermatitis) which is associated with increased IgE synthesis. Exogenous allergic alveolitis is induced essentially by allergen specific immune-complexes of the IgG type; cell-mediated reactions (T lymphocytes) may be involved. Such allergy is of the delayed type with onset up to four hours following exposure.
naphthalene	The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.
Aromatic Hydrocarbon	Tori tolene: Acute Toxicity Constitiction and toresise of molecular distances system depression within 30 minutes in one reported case. Constitiction and necrosis of mycarial fibers, markedly swollen hive, congestion and hemorrhage of the lungs and acute tubular necrosis were found on autopsy. Central nervous system effects (headaches, dizziness, intoxication) and eye irritation occurred following inhalation exposure to 100 ppm tolene B hourklay for 4 days. Exposure to 600 ppm for 8 hours resulted in the same and more serious symptoms including euphoria, dilated publis, convulsions, and nausea . Exposure to 10,000-3000 ppm has been reported to cause narcosis and death Tolene can also strip the skin of lipid causing depression. Cloudy swelling of the kindey was reported in rats following inhalation exposure to 100 ppm, 18-20 hours/day for 3 days Suchronic/Chronic Effects: Repeat doses of toluene cause adverse central nervous system effects and can damage the upper respiratory system, the liver, and the kindey. Adverse effects onci as causal information and the inhalation exposure and another function changes. It has alse resulted in nephrotoxicity and, in one case, was a cardias censitier and fatal cardiotoxin. Aumans - Chonic occupational exposure and incidences of toluene abuse have resulted in hepatomegaly and liver function changes. It has alse resulted in nephrotoxicity and, in one case, was a cardias censitier and fatal cardiotoxin. Aumans - The major target ogans for the subchronic/chonic toxicity of toluen are nervous
xylene & ethylbenzene	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.
xylene & Aromatic Hydrocarbon	The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling the epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.
ethylbenzene & naphthalene	The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.
distillates, petroleum, light, hydrotreated & distillates, petroleum, middle, sweetened & propylene glycol	WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. No significant acute toxicological data identified in literature search.

monomethyl ether - beta isomer	
distillates, petroleum, light, hydrotreated & distillates, petroleum, middle, sweetened & Naphtha, Heavy Aromatic	Studies indicate that normal, branched and cyclic paraffins are absorbed from the mammalian gastrointestinal tract and that the absorption of n-paraffins is inversely proportional to the carbon chain length, with little absorption above C30. With respect to the carbon chain lengths likely be present in mineral oil, n-paraffins may be absorbed to a greater extent that iso- or cyclo-paraffins. The major classes of hydrocarbons have been shown to be well absorbed by the gastrointestinal tract in various species. In many cases, the hydrophobic hydrocarbons are ingested in association with dietary lipids. The dependence of hydrocarbon absorption on concomitant triglycer digestion and absorption, is known as the "hydrocarbon continuum hypothesis", and asserts that a series of solubilising phases in the intestinal lumen, created by dietary triglycerides and their digestion products, afford hydrocarbons a route to the lipid phase of the intestinal absorption particles in intestinal lymph, there is evidence that most hydrocarbons partially separate from nutrient lipids and undergo metabolic transforma in the enterocyte. The enterocyte may play a major role in determining the proportion of an absorbed hydrocarbon that, by escaping initial biotransformation, becomes available for deposition in its unchanged form in peripheral tissues such as adipose tissue, or in the liver.
distillates, petroleum, light, hydrotreated & distillates, petroleum, middle, sweetened	For "texastance" A number of the same kenosenes (Jet A. CAS No. 8008-20-6 and CAS No. 84742-81-0) ranged from > 2 to >20 g/kg. The demu LDSGs of the same three kenosenes (CAS No. 84742-81-0) were presended to b > 5 and > 52. mg/s, respectively. No motalities in traits were reported in its when exposed for eight hours to saturater vapor of dedotised kenosene (robably a desultriset kenosene). Six hour exposures of cas in traits were reported in its wine interactions, straight run kenosenes produced Time" to savere intraiton studies on ange of kenosenes produced Time" to savere intraiton studies on ange of kenosenes produced Time" to savere intraiton studies on ange of kenosenes produced Time" to savere intraiton studies on ange of kenosenes produced Time" to savere intraiton studies on ange of kenosenes produced Time" to savere intraiton studies from a studies from a studies from a straight run kenosene. Cas No. 8002-206, junt A and hydrodesulturated kenosene. (CAS No. 8002-206), junt A and hydrodesulturated kenosene (CAS No. 8002-206), junt A and hydrodesulturated kenosene. (CAS No. 8002-206), junt A and hydrodesulturated kenosene (CAS No. 8002-206), junt A and hydrodesulturate hydrodesultur

either study. While kerosene produced no clinical signs, the jet fuel produced a dose-related eye irritation (or infection). The signs of irritation lasted from 2 to 8 days with most animals showing signs for 3 days. Neither of the test materials had an effect on body weights or food

	consumption. Examination of offspring at delivery did not reveal any treatment-related abnormalities, soft tissue changes or skeletal abnormalities. The sex ratio of the fetuses was also unaffected by treatment with either of the compounds.
1-Methoxy-2-Propanol & propylene glycol monomethyl ether - beta isomer	for propriese glycal ethers (PGEs): Typical propriese glycal methys effects include propriese glycal n-buryl ether (PRB): dipropriese glycal methys there acretise (DPMA): typicopytene glycal methyd ther (TPA). Testing of a wide's plot propriese glycal methyd there (TPA). Testing of a wide's plot propriese glycal methyd there (TPA). Testing of a wide's plot propriese glycal methyd there (TPA). Testing of a wide's plot propriese glycal methyd there sories. The common toxicities acsociated with the lower molecular weight homologues of the ethylene series, such as adverse effects on reproductive organs. The developing entrybo and fetts, blood fhaemohylic effects), the ethylene series are dua specifically to the formation of methoxyacetic acid. The reproductive and developmental toxicities of the lower molecular weight homologues in the ethylene series are dua specifically to the formation of an alkoxyacetic acid. The predominant alpha isomer of all the PGEs (thermodynamically favored during manufacture of PGEs) is a secondary alcohol incapable of forming an alkoxypropionic acid. In contrast beta-isomers are able to form the alkoxypropionic acids and these are linked to teratogenic effects (and possibly hearolytic effects). This alpha isomer cannot form an alkoxypropionic acid, this is the most likely reason for the lack of toxicity shown by the PGEs as distinct from the lower molecular weight healohied to the ody. As a doss or PGEs all second second methy alkowich healows and the second all portations all and heal and the able and alcohol group). Now a very similar pattern of low to non-detectable back to the proprine glycol back of novice spray heal group and the alkowich and completely methaloxie and the body. As a a group FGE seconds have bury to subsequent distributed throughout the body when introduced by inhalation coreal exposure. Dermal absorption is somewhat a subsequent distributed throughout the body when introduced by inhalation a 2-week study of unisms. For PBB, the 4-hour LSD was s651 ppm (5A, 42 mm/m
2-methylnaphthalene & 1-methylnaphthalene	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested. Data demonstrate that during inhalation exposure, aromatic hydrocarbons undergo substantial partitioning into adipose tissues. Following cessation of exposure, the level of aromatic hydrocarbons in body fats rapidly declines. Thus, the aromatic hydrocarbons are unlikely to bioaccumulate in the body. Selective partitioning of the aromatic hydrocarbons into the non-adipose tissues is unlikely. No data is available regarding distribution following dermal absorption. However, distribution following this route of exposure is likely to resemble the pattern occurring with inhalation exposure. Aromatics hydrocarbons may undergo several different Phase I dealkylation, hydroxylation and oxidation reactions which may or may not be followed by Phase II conjugation to glycine, sulfate and glucuronide conjugates of dimethylbenzyl alcohols, dimethylbenzyle can be expected to consist of a complex mixture of isomeric triphenols, the sulfate and glucuronide conjugates of dimethylbenzyl alcohols, dimethylbenzic acids and dimethylhippuric acids. Consistent with the low propensity for bioaccumulation of
2-methylnaphthalene & 1-methylnaphthalene & propylene glycol monomethyl ether - beta isomer	route of excretion. Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible informative complexation and the logic for the irritant.

asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal

lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production. ~ Acute Toxicity Carcinogenicity ~ Skin Irritation/Corrosion ¥ Reproductivity ¥ Serious Eye Damage/Irritation X STOT - Single Exposure ~ Respiratory or Skin × ~ STOT - Repeated Exposure sensitisation × × Mutagenicity Aspiration Hazard

Legend: 🗙

Data either not available or does not fill the criteria for classification
 Data available to make classification

SECTION 12 Ecological information

	Endpoint	Test Duration (hr)	Species		Value	Source
MOPAR Fuel Injector & Combustion Chamber Cleaner	Not Available	Not Available	Not Available		Not Available	Not Available
	Endpoint	Test Duration (hr)	Species		Value	Source
	EC50	72h	Algae or other aquatic plants		4.6mg/l	2
xylene	EC50	48h	Crustacea		1.8mg/l	2
	NOEC(ECx)	73h	Algae or other aquatic plants		0.44mg/l	2
	LC50	96h	Fish		2.6mg/l	2
	Endpoint	Test Duration (hr)	Species	Valu	e	Source
	EC50	72h	Algae or other aquatic plants	4.6m	g/l	1
	EC50	48h	Crustacea	1.37-	-4.4mg/l	4
ethylbenzene	NOEC(ECx)	720h	Fish	0.38	1mg/L	4
	LC50	96h	Fish	3.38	1-4.075mg/L	4
	EC50	96h	Algae or other aquatic plants	3.6m	g/l	2
distillates, petroleum, light,	Endpoint	Test Duration (hr)	Species		Value	Source
hydrotreated	NOEC(ECx)	3072h	Fish		1mg/l	1
	Endpoint	Test Duration (hr)	Species		Value	Source
	EC50	72h	Algae or other aquatic plants		>500mg/l	2
	EC50	48h	Crustacea		23300mg/l	1
1-Methoxy-2-Propanol	EC50(ECx)	168h	Algae or other aquatic plants		>1000mg/l	1
	LC50	96h	Fish		>2000mg/l	Not Availabl
	EC50	96h	Algae or other aquatic plants		>1000mg/l	2
distillates, petroleum, middle,	Endpoint	Test Duration (hr)	Species		Value	Source
sweetened	EC50(ECx)	288h	Algae or other aquatic plants		20mg/l	1
	Endpoint	Test Duration (hr)	Species		Value	Source
Polyether Amine	Not Available	Not Available	Not Available		Not Available	Not Availabl
	Endpoint	Test Duration (hr)	Species		Value	Source
	EC50(ECx)	48h	Crustacea		0.95mg/l	1
	EC50	72h	Algae or other aquatic plants		<1mg/l	1
Naphtha, Heavy Aromatic	EC50	48h	Crustacea		0.95mg/l	1
	LC50	96h	Fish		2-5mg/l	Not Available
	EC50	96h	Algae or other aquatic plants		1mg/l	2
	Endpoint	Test Duration (hr)	Species		Value	Source
	EC50(ECx)	96h	Crustacea		1.3mg/L	5
2-methylnaphthalene	EC50	48h	Crustacea		5mg/L	5
	LC50	96h	Fish		9mg/l	Not Available

	Endpoint	Test Duration (hr)	Species	Value	Source
1-methylnaphthalene	EC50(ECx)	24h	Crustacea	1.61mg/L	5
	EC50	48h	Crustacea	8.2mg/L	5
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	1.09-3.4mg/l	4
	LC50	96h	Fish	0.51mg/l	4
naphthalene	BCF	1344h	Fish	23-146	7
	NOEC(ECx)	48h	Fish	0.013mg/L	4
	EC50	72h	Algae or other aquatic plants	~0.4~0.5mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	3.78mg/L	5
Aromatic Hydrocarbon	NOEC(ECx)	168h	Crustacea	0.74mg/L	5
	LC50	96h	Fish	5-35mg/l	4
	EC50	96h	Algae or other aquatic plants	>376.71mg/L	4
propylene glycol monomethyl ether - beta isomer	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available

For Propylene Glycol Ethers: log Kow's range from 0.309 for TPM to 1.523 for DPnB. Calculated BCFs range from 1.47 for DPnB to 3.16 for DPMA and TPM, indicating low bioaccumulation. Henry's Law Constants are low for all category members, ranging from 5.7 x 10-9 atm-m3/mole for TPM to 2.7 x10-9 atm-m3/mole for PnB. Environmental Fate: Most are liquids at room temperature and all are water-soluble.

Atmospheric Fate: In air, the half-life due to direct reactions with photochemically generated hydroxyl radicals, range from 2.0 hours for TPM to 4.6 hours for PnB. Aquatic/Terrestrial Fate: Most propylene glycol ethers are likely to partition roughly equally into the soil and water compartments in the environment with small to negligible amounts remaining in other environmental compartments (air, sediment, and aquatic biota). In water, most members of this family are "readily biodegradable" under aerobic conditions. In soil, biodegradation is rapid for PM and PMA.

Ecotoxicity: Propylene glycol ethers are unlikely to persist in the environment. Acute aquatic toxicity testing indicates low toxicity for both ethers and acetates. **DO NOT** discharge into sewer or waterways.

- Bioconcentration Data 8. Vendor Data

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
ethylbenzene	HIGH (Half-life = 228 days)	LOW (Half-life = 3.57 days)
1-Methoxy-2-Propanol	LOW (Half-life = 56 days)	LOW (Half-life = 1.7 days)
2-methylnaphthalene	HIGH	HIGH
1-methylnaphthalene	HIGH	HIGH
naphthalene	HIGH (Half-life = 258 days)	LOW (Half-life = 1.23 days)
Aromatic Hydrocarbon	LOW (Half-life = 28 days)	LOW (Half-life = 4.33 days)
propylene glycol monomethyl ether - beta isomer	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
xylene	MEDIUM (BCF = 740)
ethylbenzene	LOW (BCF = 79.43)
distillates, petroleum, light, hydrotreated	LOW (BCF = 159)
1-Methoxy-2-Propanol	LOW (BCF = 2)
Naphtha, Heavy Aromatic	LOW (BCF = 159)
2-methylnaphthalene	MEDIUM (LogKOW = 3.86)
1-methylnaphthalene	MEDIUM (LogKOW = 3.87)
naphthalene	HIGH (BCF = 18000)
Aromatic Hydrocarbon	LOW (BCF = 90)
propylene glycol monomethyl ether - beta isomer	LOW (LogKOW = -0.4891)

Mobility in soil

Ingredient	Mobility
ethylbenzene	LOW (KOC = 517.8)
1-Methoxy-2-Propanol	HIGH (KOC = 1)
2-methylnaphthalene	LOW (KOC = 2976)

Ingredient	Mobility
1-methylnaphthalene	LOW (KOC = 3038)
naphthalene	LOW (KOC = 1837)
Aromatic Hydrocarbon	LOW (KOC = 268)
propylene glycol monomethyl ether - beta isomer	HIGH (KOC = 1)

SECTION 13 Disposal considerations

Waste treatment methods	
Product / Packaging disposal	 Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. Otherwise: If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. Where possible retain label warnings and SDS and observe all notices pertaining to the product. Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material). Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

SECTION 14 Transport information

Marine Pollutant

Labels Required

NO

Land transport (DOT)

UN number	1993	
UN proper shipping name	Flammable liquids, n.o.s. (contains xylene, distillates, petroleum, light, hydrotreated and distillates, petroleum, middle, sweetened)	
Transport hazard class(es)	Class 3 Subrisk Not Applicable	
Packing group	III	
Environmental hazard	Not Applicable	
Special precautions for user	Hazard Label3Special provisionsB1, B52, IB3, T4, TP1, TP29	

Air transport (ICAO-IATA / DGR)

UN number	1993			
UN proper shipping name	Flammable liquid, n.o.s. * (contains xylene, distillates, petroleum, light, hydrotreated and distillates, petroleum, middle, sweetened)			
	ICAO/IATA Class	3		
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
	ERG Code	3L		
Packing group				
Environmental hazard	Not Applicable			
	Special provisions		A3	
	Cargo Only Packing Instructions		366	
	Cargo Only Maximum Qty / Pack		220 L	
Special precautions for user	Passenger and Cargo Packing Instructions		355	
	Passenger and Cargo Maximum Qty / Pack			
	Passenger and Cargo Limited Quantity Packing Instructions		Y344	
	Passenger and Cargo Limited Maximum Qty / Pack		10 L	

Sea transport (IMDG-Code / GGVSee)

UN number 1993

UN proper shipping name	FLAMMABLE LIQUID	0, N.O.S. (contains xylene, distillates, petroleum, light, hydrotreated and distillates, petroleum, middle, sweetened)
Transport hazard class(es)	IMDG Class 3 IMDG Subrisk N	3 Not Applicable
Packing group	Ш	
Environmental hazard	Not Applicable	
Special precautions for user	EMS Number Special provisions Limited Quantities	F-E, S-E 223 274 955 5 L

Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
xylene	Not Available
ethylbenzene	Not Available
distillates, petroleum, light, hydrotreated	Not Available
1-Methoxy-2-Propanol	Not Available
distillates, petroleum, middle, sweetened	Not Available
Polyether Amine	Not Available
Naphtha, Heavy Aromatic	Not Available
2-methylnaphthalene	Not Available
1-methylnaphthalene	Not Available
naphthalene	Not Available
Aromatic Hydrocarbon	Not Available
propylene glycol monomethyl ether - beta isomer	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
xylene	Not Available
ethylbenzene	Not Available
distillates, petroleum, light, hydrotreated	Not Available
1-Methoxy-2-Propanol	Not Available
distillates, petroleum, middle, sweetened	Not Available
Polyether Amine	Not Available
Naphtha, Heavy Aromatic	Not Available
2-methylnaphthalene	Not Available
1-methylnaphthalene	Not Available
naphthalene	Not Available
Aromatic Hydrocarbon	Not Available
propylene glycol monomethyl ether - beta isomer	Not Available

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

xylene is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

- US California Hazardous Air Pollutants Identified as Toxic Air Contaminants
- US Massachusetts Right To Know Listed Chemicals
- US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)
- US Clean Air Act Hazardous Air Pollutants
- US CWA (Clean Water Act) List of Hazardous Substances
- ethylbenzene is found on the following regulatory lists

- US DOE Temporary Emergency Exposure Limits (TEELs)
- US EPA Integrated Risk Information System (IRIS)
- US EPCRA Section 313 Chemical List
- US OSHA Permissible Exposure Limits (PELs) Table Z-1
- US Toxic Substances Control Act (TSCA) Chemical Substance Inventory
- US TSCA Chemical Substance Inventory Interim List of Active Substances

Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants US - California Proposition 65 - Carcinogens US - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List US - Massachusetts - Right To Know Listed Chemicals US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs) US Clean Air Act - Hazardous Air Pollutants distillates, petroleum, light, hydrotreated is found on the following regulatory lists Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs Carcinogens International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans US - California Proposition 65 - Carcinogens US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List 1-Methoxy-2-Propanol is found on the following regulatory lists US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants US - Massachusetts - Right To Know Listed Chemicals US DOE Temporary Emergency Exposure Limits (TEELs) US EPA Integrated Risk Information System (IRIS) distillates, petroleum, middle, sweetened is found on the following regulatory lists Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs Carcinogens International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans US - California Proposition 65 - Carcinogens US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List Polyether Amine is found on the following regulatory lists Not Applicable Naphtha, Heavy Aromatic is found on the following regulatory lists International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

2-methylnaphthalene is found on the following regulatory lists

- International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)
- US Alaska Air Quality Control Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5
- US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)
- US Clean Air Act Hazardous Air Pollutants
- US DOE Temporary Emergency Exposure Limits (TEELs)
- US EPA Integrated Risk Information System (IRIS)

1-methylnaphthalene is found on the following regulatory lists

- US Massachusetts Right To Know Listed Chemicals
- US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)
- US Clean Air Act Hazardous Air Pollutants

naphthalene is found on the following regulatory lists

- US CWA (Clean Water Act) List of Hazardous Substances US CWA (Clean Water Act) - Priority Pollutants
- US CWA (Clean Water Act) Toxic Pollutants
- US DOE Temporary Emergency Exposure Limits (TEELs)
- US EPA Integrated Risk Information System (IRIS)
- US EPCRA Section 313 Chemical List
- US NIOSH Recommended Exposure Limits (RELs)
- US OSHA Permissible Exposure Limits (PELs) Table Z-1
- US Toxic Substances Control Act (TSCA) Chemical Substance Inventory
- US TSCA Chemical Substance Inventory Interim List of Active Substances
- US DOE Temporary Emergency Exposure Limits (TEELs)
- US National Toxicology Program (NTP) 15th Report Part A Known to be Human
- US OSHA Permissible Exposure Limits (PELs) Table Z-1
- US Toxic Substances Control Act (TSCA) Chemical Substance Inventory
- US TSCA Chemical Substance Inventory Interim List of Active Substances
- US EPCRA Section 313 Chemical List
- US NIOSH Recommended Exposure Limits (RELs)
- US Toxic Substances Control Act (TSCA) Chemical Substance Inventory
- US TSCA Chemical Substance Inventory Interim List of Active Substances
- US DOE Temporary Emergency Exposure Limits (TEELs)
- US National Toxicology Program (NTP) 15th Report Part A Known to be Human
- US OSHA Permissible Exposure Limits (PELs) Table Z-1
- US Toxic Substances Control Act (TSCA) Chemical Substance Inventory
- US TSCA Chemical Substance Inventory Interim List of Active Substances

US TSCA Chemical Substance Inventory - Interim List of Active Substances

- US NIOSH Recommended Exposure Limits (RELs)
- US OSHA Permissible Exposure Limits (PELs) Table Z-1
- US OSHA Permissible Exposure Limits (PELs) Table Z-3
- US Toxic Substances Control Act (TSCA) Chemical Substance Inventory
- US TSCA Chemical Substance Inventory Interim List of Active Substances
- US DOE Temporary Emergency Exposure Limits (TEELs) US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US TSCA Chemical Substance Inventory - Interim List of Active Substances

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC

MOPAR Fuel Injector & Combustion Chamber Cleaner

US CWA (Clean Water Act) - Priority Pollutants

US CWA (Clean Water Act) - Toxic Pollutants

Monographs US DOE Temporary Emergency Exposure Limits (TEELs) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC US EPA Integrated Risk Information System (IRIS) Monographs - Group 2B: Possibly carcinogenic to humans US EPCRA Section 313 Chemical List International WHO List of Proposed Occupational Exposure Limit (OEL) Values for US National Toxicology Program (NTP) 15th Report Part B. Reasonably Anticipated to Manufactured Nanomaterials (MNMS) be a Human Carcinogen US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for US NIOSH Recommended Exposure Limits (RELs) Air Pollutants Other Than PM-2.5 US OSHA Permissible Exposure Limits (PELs) Table Z-1 US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants US OSHA Permissible Exposure Limits (PELs) Table Z-3 US - California Proposition 65 - Carcinogens US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens US TSCA Chemical Substance Inventory - Interim List of Active Substances US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 US TSCA Section 4/12 (b) - Sunset Dates/Status List US - Massachusetts - Right To Know Listed Chemicals US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs) US Clean Air Act - Hazardous Air Pollutants US CWA (Clean Water Act) - List of Hazardous Substances Aromatic Hydrocarbon is found on the following regulatory lists US CWA (Clean Water Act) - Priority Pollutants Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC US CWA (Clean Water Act) - Toxic Pollutants Monographs US DOE Temporary Emergency Exposure Limits (TEELs) US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants US Drug Enforcement Administration (DEA) List I and II Regulated Chemicals US - California Proposition 65 - Maximum Allowable Dose Levels (MADLs) for US EPA Integrated Risk Information System (IRIS) Chemicals Causing Reproductive Toxicity US EPCRA Section 313 Chemical List US - California Proposition 65 - Reproductive Toxicity US NIOSH Recommended Exposure Limits (RELs) US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 US OSHA Permissible Exposure Limits (PELs) Table Z-2 List US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US - Massachusetts - Right To Know Listed Chemicals US TSCA Chemical Substance Inventory - Interim List of Active Substances US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs) US Clean Air Act - Hazardous Air Pollutants US CWA (Clean Water Act) - List of Hazardous Substances propylene glycol monomethyl ether - beta isomer is found on the following regulatory lists Chemical Footprint Project - Chemicals of High Concern List

US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants US EPCRA Section 313 Chemical List US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US TSCA Chemical Substance Inventory - Interim List of Active Substances

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories

Flammable (Gases, Aerosols, Liquids, or Solids)	Yes
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	Yes
Acute toxicity (any route of exposure)	Yes
Reproductive toxicity	Yes
Skin Corrosion or Irritation	Yes
Respiratory or Skin Sensitization	No
Serious eye damage or eye irritation	No
Specific target organ toxicity (single or repeated exposure)	Yes
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	Yes

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

Name	Reportable Quantity in Pounds (Ib)	Reportable Quantity in kg
xylene	100	45.4

Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg
ethylbenzene	1000	454
naphthalene	100	45.4
Aromatic Hydrocarbon	1000	454

State Regulations

US. California Proposition 65

WARNING: This product can expose you to chemicals including ethylbenzene, distillates, petroleum, light, hydrotreated, distillates, petroleum, middle, sweetened, ∕!∖ naphthalene, which are known to the State of California to cause cancer, and Aromatic Hydrocarbon, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (xylene; ethylbenzene; distillates, petroleum, light, hydrotreated; 1-Methoxy-2-Propanol; distillates, petroleum, middle, sweetened; Naphtha, Heavy Aromatic; naphthalene; Aromatic Hydrocarbon; propylene glycol monomethyl ether - beta isomer)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	Yes	
Korea - KECI	No (2-methylnaphthalene; 1-methylnaphthalene)	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (distillates, petroleum, middle, sweetened; 1-methylnaphthalene; propylene glycol monomethyl ether - beta isomer)	
Vietnam - NCI	Yes	
Russia - FBEPH	No (distillates, petroleum, middle, sweetened)	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

SECTION 16 Other information

Revision Date	09/21/2022	
Initial Date	08/04/2022	
SDS Version Summary		
Vereien	Data of Lindota	Sections Undeted

version	Date of Update	Sections Updated
1.2	09/21/2022	Ingredients, Name

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory

NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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