

High-Purity Standards

Catalogue number: PAH-HM16C

Version No: 1.1 Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

SECTION 1 IDENTIFICATION

Product Identifier	
Product name	Polycyclic Aromatic Hydrocarbons Standard Mixture
Synonyms	PAH-HM16C
Proper shipping name	Dichloromethane
Other means of identification	PAH-HM16C

Recommended use of the chemical and restrictions on use

Relevant identified uses Use according to manufacturer's directions.

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

Registered company name	High-Purity Standards
Address	PO Box 41727 SC 29423 United States
Telephone	843-767-7900
Fax	843-767-7906
Website	highpuritystandards.com
Email	Not Available

Emergency phone number

Association / Organisation	INFOTRAC
Emergency telephone numbers	
Other emergency telephone numbers	

SECTION 2 HAZARD(S) IDENTIFICATION

Classificatio	n Carcinogenicity Category 1B, Skin Sensitizer Category 1, Germ cell mutagenicity Category 1B, Reproductive Toxicity Category 1B, Acute Aquatic Hazard Category 1, Chronic Aquatic Hazard Category 1
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DANGER

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SIGNAL WORD

Hazard statement(s)

H350	May cause cancer.
H317	May cause an allergic skin reaction.
H340	May cause genetic defects.
H360	May damage fertility or the unborn child.
H410	Very toxic to aquatic life with long lasting effects.

Chemwatch Hazard Alert Code: 4

Issue Date: 06/05/2017 Print Date: 06/05/2017

S.GHS.USA.EN

Hazard(s) not otherwise specified

Not Applicable

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
Precautionary statement(s) Response
P308+P313	IF exposed or concerned: Get medical advice/attention.
Precautionary statement(s) Storage
P405	Store locked up.
Precautionary statement(s) Disposal	
P501	Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
75-09-2	balance	methylene chloride
83-32-9	0.2	acenaphthene
208-96-8	0.2	acenaphthylene
120-12-7	0.2	anthracene
56-55-3	0.2	benz[a]anthracene
50-32-8	0.2	benz[a]pyrene
205-99-2	0.2	benzo[b]fluoranthene
191-24-2	0.2	benzo[ghi]perylene
207-08-9	0.2	benzo[k]fluoranthene
218-01-9	0.2	chrysene
53-70-3	0.2	dibenz[a,h]anthracene
206-44-0	0.2	fluoranthene
86-73-7	0.2	fluorene
193-39-5	0.2	indeno[1,2,3-cd]pyrene
91-20-3	0.2	naphthalene
85-01-8	0.2	phenanthrene
129-00-0	0.2	pyrene

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	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

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See Section 11

Indication of any immediate medical attention and special treatment needed

for naphthalene intoxication: Naphthalene requires hepatic and microsomal activation prior to the production of toxic effects. Liver microsomes catalyse the initial synthesis of the reactive 1,2-epoxide intermediate which is subsequently oxidised to naphthalene dihydrodiol and alpha-naphthol. The 2-naphthoquinones are thought to produce haemolysis, the 1,2-naphthoquinones are thought to be responsible for producing cataracts in rabbits, and the glutathione-adducts of naphthalene-1,2-oxide are probably responsible for pulmonary toxicity. Suggested treatment regime:

- Induce emesis and/or perform gastric lavage with large amounts of warm water where oral poisoning is suspected.
- Instill a saline cathartic such as magnesium or sodium sulfate in water (15 to 30g).
- Demulcents such as milk, egg white, gelatin, or other protein solutions may be useful after the stomach is emptied but oils should be avoided because they promote absorption.
- If eyes/skin contaminated, flush with warm water followed by the application of a bland ointment.
- Severe anaemia, due to haemolysis, may require small repeated blood transfusions, preferably with red cells from a non-sensitive individual.
- Where intravascular haemolysis, with haemoglobinuria occurs, protect the kidneys by promoting a brisk flow of dilute urine with, for example, an osmotic diuretic such as mannitol. It may be useful to alkalinise the urine with small amounts of sodium bicarbonate but many researchers doubt whether this prevents blockage of the renal tubules.
- Use supportive measures in the case of acute renal failure. GOSSELIN, SMITH HODGE: Clinical Toxicology of Commercial Products, 5th Ed.

SECTION 5 FIRE-FIGHTING MEASURES

Extinguishing media

There is no restriction on the type of extinguisher which may be used

Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
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Special protective equipment and precautions for fire-fighters

Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	 Non combustible. Not considered a significant fire risk, however containers may burn. May emit poisonous fumes.

SECTION 6 ACCIDENTAL RELEASE MEASURES

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	 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 spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
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

Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs.

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	▶ Use in a well-ventilated area.
	Prevent concentration in hollows and sumps.
	DO NOT enter confined spaces until atmosphere has been checked.
	DO NOT allow material to contact humans, exposed food or food utensils.
	Avoid contact with incompatible materials.
	When handling, DO NOT eat, drink or smoke.
	Keep containers securely sealed when not in use.
	Avoid physical damage to containers.
	Always wash hands with soap and water after handling.
	Work clothes should be laundered separately. Launder contaminated clothing before re-use.
	 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 are maintained.
	DO NOT allow clothing wet with material to stay in contact with skin
	► Store in original containers.
	 Keep containers securely sealed.
ou	Store in a cool, dry, well-ventilated area.
Other information	Store away from incompatible materials and foodstuff containers.
	Protect containers against physical damage and check regularly for leaks.
	Observe manufacturer's storage and handling recommendations contained within this SDS.
ons for safe storag	e, including any incompatibilities

Suitable container	 Lined metal can, lined metal pail/ can. Plastic pail. Polyliner drum. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks. For low viscosity materials Drums and jerricans must be of the non-removable head type. Where a can is to be used as an inner package, the can must have a screwed enclosure. For materials with a viscosity of at least 2680 cSt. (23 deg. C) and solids (between 15 C deg. and 40 deg C.): Removable head packaging; Cans with friction closures and 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 and II 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	None known

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA						
Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Levels (PELs) - Table Z1	methylene chloride	Methylene chloride	50 ppm	Not Available	Not Available	See Table Z-2
US OSHA Permissible Exposure Levels (PELs) - Table Z2	methylene chloride	Methylene Chloride	Not Available	Not Available	Not Available	See 1919.52.
US NIOSH Recommended Exposure Limits (RELs)	methylene chloride	Dichloromethane, Methylene dichloride	Not Available	Not Available	Not Available	Ca See Appendix A
US ACGIH Threshold Limit Values (TLV)	methylene chloride	Dichloromethane	Not Available	Not Available	Not Available	TLV® Basis: COHb-emia; CNS impair; BEI
US ACGIH Threshold Limit Values (TLV)	benz[a]anthracene	Benz[a]anthracene	Not Available	Not Available	Not Available	TLV® Basis: Skin cancer; BEIP
US ACGIH Threshold Limit Values (TLV)	benz[a]pyrene	Benzo[a]pyrene	Not Available	Not Available	Not Available	TLV® Basis: Cancer; BElp
US ACGIH Threshold Limit Values (TLV)	benzo[b]fluoranthene	Benzo[b]fluoranthene	Not Available	Not Available	Not Available	TLV® Basis: Cancer; BElp
US ACGIH Threshold Limit Values (TLV)	chrysene	Chrysene	Not Available	Not Available	Not Available	TLV® Basis: Cancer; BElp
US OSHA Permissible Exposure Levels (PELs) - Table Z1	naphthalene	Naphthalene	50 mg/m3 / 10 ppm	75 mg/m3 / 15 ppm	Not Available	TLV® Basis: URT irr; cataracts; hemolytic anemia
US NIOSH Recommended Exposure Limits (RELs)	naphthalene	Naphthalin, Tar camphor, White tar	50 mg/m3 / 10 ppm	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	naphthalene	Naphthalene	10 ppm	Not Available	Not Available	Not Available

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Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
methylene chloride	Methylene chloride; (Dichloromethane)	Not Available	Not Available	Not Available
acenaphthene	Acenaphthene	3.6 mg/m3	40 mg/m3	240 mg/m3
acenaphthylene	Acenaphthylene	10 mg/m3	110 mg/m3	660 mg/m3
anthracene	Anthracene	48 mg/m3	530 mg/m3	3,200 mg/m3
benz[a]anthracene	Benzo(a)anthracene	1.2 mg/m3	13 mg/m3	79 mg/m3
benz[a]pyrene	Benzo(a)pyrene; (Coal tar pitch volatiles)	0.6 mg/m3	120 mg/m3	700 mg/m3
benzo[b]fluoranthene	Benz(e)acephenanthrylene; (Benzo(b)fluoroanthene)	0.12 mg/m3	1.3 mg/m3	7.9 mg/m3
benzo[ghi]perylene	Benzo(ghi)perylene	30 mg/m3	330 mg/m3	2,000 mg/m3
chrysene	Chrysene	0.6 mg/m3	12 mg/m3	69 mg/m3
dibenz[a,h]anthracene	Dibenza(a,h)anthracene	0.093 mg/m3	1 mg/m3	2.9 mg/m3
fluoranthene	Fluoranthene	4.1 mg/m3	45 mg/m3	400 mg/m3
fluorene	Fluorene, 9H-	6.6 mg/m3	72 mg/m3	430 mg/m3
indeno[1,2,3-cd]pyrene	Indeno(1,2,3-cd)pyrene	1.2 mg/m3	13 mg/m3	79 mg/m3
naphthalene	Naphthalene	15 ppm	83 ppm	500 ppm
phenanthrene	Phenanthrene	2.1 mg/m3	23 mg/m3	360 mg/m3
pyrene	Pyrene	0.15 mg/m3	1.7 mg/m3	7.5 mg/m3
Ingredient	Original IDLH	Revised IDLH		
methylene chloride	10,000 ppm	2,000 ppm		
acenaphthene	Not Available	Not Available		
acenaphthylene	Not Available	Not Available		
anthracene	Not Available	Not Available		
benz[a]anthracene	Not Available	Not Available		
benz[a]pyrene	Not Available	Not Available		
benzo[b]fluoranthene	Not Available	Not Available		
benzo[ghi]perylene	Not Available	Not Available		
benzo[k]fluoranthene	Not Available	Not Available		
chrysene	Not Available	Not Available		
dibenz[a,h]anthracene	Not Available	Not Available		
fluoranthene	Not Available	Not Available		
fluorene	Not Available	Not Available		
indepol 2.2 adlayrana	Not Available	Not Available		
indeno[1,2,3-cd]pyrene				
naphthalene	500 ppm	250 ppm		
	500 ppm Not Available	250 ppm Not Available		
naphthalene				

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. Employees 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 tas and before engaging in other activities not associated with the isolated system. Within regulated areas, the carcinogen should be stored in sealed containers, or enclosed in a closed system, including piping systems, with any sample ports or openings closed while the carcinogens are contained within. Open-vessel systems are prohibited. Exch operation should be provided with continuous local exhaust ventilation so that air movement is always from ordinary work areas to the operation. Exhaust air should not be discharged to regulated areas, non-regulated areas or the external environment unless decontaminated. Clean make-up air shou be introduced in sufficient volume to maintain correct operation of the local exhaust ystem. For maintenance and decontamination act
Personal protection	

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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 fortwear or safety gunboots, e.g. Rubber NoTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, bells and watch-bands should be removed and destroyed. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly, Application of a non-perfurmed moisturizer is recommended. Suttability and durability of orinata, chemical resistance of glove material, glove thichness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). When onybringed or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. When onybring dove should be replaced. When onybring dove should be replaced. Some glove solymer types are loss affected by movement and this should be taken into account when considering gloves for long-term use. Contaminated glove should be replaced. Some
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 furmes, 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.
Thermal hazards	Not Available

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	colorless		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available

Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	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)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

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	The material is not thought to produce respiratory irritation (as classified by EC aerosols, especially for prolonged periods, may produce respiratory discomfort Inhalation of vapours or aerosols (mists, fumes), generated by the material durir individual. Inhalation of naphthalene vapour is linked with headache, loss of appetite, nause exposure may cause excessive weakness and increased salivation, weight loss, lungs.	ng the course of normal handling, may be damaging to the health of the ea, damage to the eyes and kidneys. According to animal testing, long term
Ingestion	Accidental ingestion of the material may be damaging to the health of the indivic Ingestion of naphthalene and related compounds may produce abdominal cram confusion, and in severe poisonings, coma with or without convulsions. Irritation passage of brown or black urine with or without albumin or casts.	ps with nausea, vomiting, diarrhoea, headache, profuse sweating, listlessness,
Skin Contact	Skin contact is not thought to have harmful health effects (as classified under E through wounds, lesions or abrasions. There is some evidence to suggest that this material can cause inflammation of Workers sensitised to naphthalene and related compounds show an inflammatic reaction. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may of the material and ensure that any external damage is suitably protected.	the skin on contact in some persons.
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives by tearing or conjunctival redness (as with windburn). Long term exposure to naphthalene has produced clouding of the lens (cataract	
	Long term exposure to hapithalene has produced clouding of the iens (catalact	
Chronic	Inhaling this product is more likely to cause a sensitisation reaction in some per Skin contact with the material is more likely to cause a sensitisation reaction in s There is ample evidence that this material can be regarded as being able to cau Based on experiments and other information, there is ample evidence to presum Ample evidence exists from experimentation that reduced human fertility is direct Animal testing indicates that inhalation of naphthalene may increase the inciden	sons compared to the general population. some persons compared to the general population. se cancer in humans based on experiments and other information. that exposure to this material can cause genetic defects that can be inherited. ty caused by exposure to the material. ce of respiratory tumours and may aggravate chronic inflammation. hal tar, tobacco smoke, petroleum and air pollution. Some substituted derivatives
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		Oral (mouse) LD50: 700 mg/kgd ^[2]			Not Available
	pyrene	Oral (mouse) LD50: 700 mg/kgd ^[2] TOXICITY Oral (rat) LD50: 2700 mg/kgd ^[2]		Skin (rabbit): 500 mg/24h - mi	Not Available

METHYLENE CHLORIDE

The material may produce moderate eye irritation leading to inflammation. The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of

	vesicles, scaling and thickening of the skin. Inhalation (human) TCLo: 500 ppm/ 1 y - I Eye(rabbit): 10 mg - mild		
ANTHRACENE	Oral (rat) TDLo: 20000 m g/kg/79w -I Skin (mouse): 0.118 mg - mild Equ	ivocal tumorigen by RT	ECS criteria
AnnitAdene	The following information refers to contact allergens as a group and may		
BENZ[A]PYRENE	WARNING: This substance has been classified by the IARC as Group a Exposure to the material for prolonged periods may cause physical defect	CARCINOGENIC TO	HUMANS.
BENZO[B]FLUORANTHENE	Lung, kidney, skin tumors and tumors at site of application recorded.		
BENZO[K]FLUORANTHENE	Tumours at site of application.		
CHRYSENE	Target organs in include skin (tumours at site of application).		
FLUORANTHENE	Equivocal tumorigen bt RTECS criteria. Tumors at site of application rec	corded.	
NAPHTHALENE	The material may be irritating to the eye, with prolonged contact causing	inflammation.	
PHENANTHRENE	Tumors at site of application. Neoplastic and tumorigenic by RTECS crit	eria.	
PYRENE	Conjunctival irritation, excitement and muscle contraction recorded.		
METHYLENE CHLORIDE & DIBENZ[A,H]ANTHRACENE	WARNING: This substance has been classified by the IARC as Group 2	2A: Probably Carcinoger	iic to Humans.
ACENAPHTHENE & ACENAPHTHYLENE & ANTHRACENE & FLUORANTHENE & PHENANTHRENE & PYRENE	Asthma-like symptoms may continue for months or even years after expos	sure to the material ends.	
ACENAPHTHENE & BENZO[B]FLUORANTHENE & BENZO[GHI]PERYLENE & BENZO[K]FLUORANTHENE & DIBENZ[A,H]ANTHRACENE & INDENO[1,2,3- CD]PYRENE	No significant acute toxicological data identified in literature search.		
ACENAPHTHENE & ACENAPHTHENE & ANTHRACENE & BENZO[GHI]PERYLENE & FLUORANTHENE & FLUORENE & PHENANTHRENE & PYRENE	The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans.		
ANTHRACENE & BENZ[A]PYRENE & NAPHTHALENE & PYRENE	The material may cause skin irritation after prolonged or repeated exposu scaling and thickening of the skin.	are and may produce on	contact skin redness, swelling, the production of vesicles,
ANTHRACENE & BENZO[B]FLUORANTHENE & BENZO[GHI]PERYLENE & BENZO[K]FLUORANTHENE & CHRYSENE & DIBENZ[A,H]ANTHRACENE & FLUORANTHENE & INDENO[1,2,3-CD]PYRENE & PHENANTHRENE & PYRENE	NOTE: Substance has been shown to be mutagenic in at least one assay	; or belongs to a family o	of chemicals producing damage or change to cellular DNA.
BENZ[A]ANTHRACENE & BENZO[B]FLUORANTHENE & BENZO[K]FLUORANTHENE & CHRYSENE & INDENO[1,2,3-CD]PYRENE & NAPHTHALENE	WARNING: This substance has been classified by the IARC as Group 2	2B: Possibly Carcinogen	ic to Humans.
BENZ[A]ANTHRACENE & BENZ[A]PYRENE & BENZO[B]FLUORANTHENE & BENZO[K]FLUORANTHENE &	Tenth Annual Report on Carcinogens: Substance anticipated to be Carci [National Toxicology Program: U.S. Dep.	nogen	
DIBENZ[A,H]ANTHRACENE & INDENO[1,2,3- CD]PYRENE			
Acute Toxicity	0	Carcinogenicity	✓
Skin Irritation/Corrosion	\otimes	Reproductivity	✓
Serious Eye Damage/Irritation	STO STO	T - Single Exposure	0
Respiratory or Skin	✓ STOT-	Repeated Exposure	0
sensitisation			
sensitisation Mutagenicity	✓	Aspiration Hazard	0

🚫 – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Polycyclic Aromatic	ENDPOINT		TEST DURATION (HR)		SPECIES	VALUE		SOURCE
Hydrocarbons Standard Mixture	Not Applicable		Not Applicable		Not Applicable	Not Applica	able	Not Applicable
Mixture								
	ENDPOINT	TE	ST DURATION (HR)		PECIES		VALUE	SOURCE
	LC50	96			Tish		=13.1mg/L	1
	EC50	48			Crustacea		=108.5mg/L	1
methylene chloride	EC50	96			lgae or other aquatic plants		161.874mg/L	3
	EC50	384	1		Crustacea		10.334mg/L	3
	NOEC	96					-	4
	NOEC	90		/	lgae or other aquatic plants		56mg/L	4
								0011707
	ENDPOINT		ST DURATION (HR)		ECIES		LUE	SOURCE
	LC50	96		Fis			58mg/L	4
acenaphthene	EC50	48			istacea		275mg/L	4
	EC50	96			ae or other aquatic plants		āmg/L	1
	EC50	384			istacea		78mg/L	3
	NOEC	768		Fis	h	0.2	208-0.226mg/L	1
	ENDPOINT	TE	EST DURATION (HR)		SPECIES		VALUE	SOURCE
acenaphthylene	LC50	96	i		Fish		0.991mg/L	3
acchapitatylene	EC50	96	i		Algae or other aquatic plan	ts	1.450mg/L	3
	EC50	38	4		Crustacea		0.249mg/L	3
	ENDPOINT	TES	T DURATION (HR)	SPE	CIES	VAL	JE	SOURCE
	LC50	96		Fish		0.001	27mg/L	4
	EC50	48		Crus	tacea	0.011	19096mg/L	4
anthracene	EC50	72		Alga	e or other aquatic plants	>0.0)78mg/L	2
	BCF	48		Fish		1.0m	g/L	4
	EC50	24		Crus	tacea	ca.0.	0012mg/L	2
	NOEC	22		Alga	e or other aquatic plants	0.00	15-0.0017mg/L	2
	ENDPOINT	TES	T DURATION (HR)	SPE	CIES	VAL	UE	SOURCE
	LC50	96		Fish		0.08	3mg/L	3
	EC50	48		Crus	tacea	0.00)958776mg/L	4
benz[a]anthracene	EC50	96		Alga	e or other aquatic plants	0.08	7mg/L	3
	BCF	24		Crus	tacea	0.00	6mg/L	4
	EC50	48		Crus	tacea	0.00	14815372mg/L	4
	ENDPOINT	TES	T DURATION (HR)	SPE	CIES	VAL	UE	SOURCE
	LC50	96		Fish		0.02	6mg/L	3
	EC50	48		Crus	tacea	0.00	09815248mg/L	4
benz[a]pyrene	EC50	72		Alga	e or other aquatic plants	0.00	5mg/L	4
	BCF	12		Fish		7.51	mg/L	4
	EC50	48		Crus	tacea		16249408mg/L	4
	NOEC	360		Fish		0.00	102mg/L	4
	·							
	ENDPOINT	TE	EST DURATION (HR)		SPECIES		VALUE	SOURCE
	LC50	96			Fish		0.026mg/L	3
benzo[b]fluoranthene	EC50	96			Algae or other aquatic plan	ts	0.029mg/L	3
		00					0.020110/2	

	ENDPOINT	TES	T DURATION (HR)	SPECI	ES			VALUE			SOURCE
	LC50	96		Fish				0.008mg/	L		3
	EC50	48		Crusta	cea			0.000132			4
benzo[ghi]perylene	EC50 EC50	96				uatic plants			-		3
						ualic pidnis		0.010mg/			
	BCF	24		Crusta				0.0002mg			4
	EC50	48		Crusta	cea			0.0010418	5018mg/L		4
	ENDPOINT		TEST DURATION (HR)			SPECIES	V	ALUE		SO	URCE
benzo[k]fluoranthene	BCF		24			Crustacea	0	.0014ma/L		4	
	NOEC		144			Fish		.01mg/L		4	
	ENDPOINT	TES	T DURATION (HR)	SPEC	IES			VALUE			SOURCE
	LC50	96		Fish				0.083mg	g/L		3
chrysene	EC50	96		Algae	or other ac	uatic plants		0.087mg	g/L		3
onysene	BCF	240		Crusta	acea			0.00136	968mg/L		4
	EC50	384		Crusta	acea			0.027mg	g/L		3
	NOEC	2016	3	Fish				0.11633	1488mg/L		4
							1				
	ENDPOINT		T DURATION (HR)	SPECI	ES			VALUE			SOURCE
	LC50	96		Fish				0.008mg/	L		3
	EC50	48		Crusta	cea			0.000551	0934mg/L		4
dibenz[a,h]anthracene	EC50	96		Algae o	or other aq	uatic plants		0.010mg/	L		3
	BCF	6		Crusta	cea			0.00072m	ng/L		4
	EC50	48		Crusta	cea			0.001558	648mg/L		4
	NOEC	144		Fish				0.01mg/L			4
		TEO		CREO	150						COUDOE
	ENDPOINT	-	T DURATION (HR)	SPEC	IES			VALUE			SOURCE
	LC50	96		Fish				0.0001m	-		4
	EC50	48		Crusta					4522mg/L		4
fluoranthene	EC50	72		Algae	or other ac	uatic plants		0.103mg	ı/L		4
	BCF	672		Crusta	icea			0.125mg	ı/L		4
	EC10	144		Crusta	icea			0.0078m	ig/L		4
	NOEC	744		Crusta	icea			0.0006m	ng/L		4
	ENDPOINT	TE	ST DURATION (HR)	SP	ECIES			V	ALUE		SOURCE
	LC50	96		Fis					76mg/L		4
	EC50	48			ustacea				212mg/L		4
fluorene	EC50 EC50	96				r aquatic plants			212mg/L 346mg/L		3
nuorene	BCF		2		ustacea	1 aqualic piants			-		
		576)		usiacea				055mg/L		4
		00	4	~	unto ·			0.	238mg/L		3
	EC50	384			ustacea						
		384 336			ustacea ustacea			0.	0625mg/L		4
	EC50					IES	VALU		0625mg/L	SOURC	
ndeno[1,2,3-cd]pyrene	EC50 NOEC		5		ustacea SPEC	IES			0625mg/L		CE
ndeno[1,2,3-cd]pyrene	EC50 NOEC ENDPOINT Not Applicable	330	TEST DURATION (HR) Not Applicable	Cri	ustacea SPEC Not Ap			E	0625mg/L	SOURC	CE blicable
ndeno[1,2,3-cd]pyrene	EC50 NOEC ENDPOINT Not Applicable ENDPOINT	TES	TEST DURATION (HR)	Cri SPECI	ustacea SPEC Not Ap			E pplicable VALUE	0625mg/L	SOURC	CE blicable SOURCE
ndeno[1,2,3-cd]pyrene	EC50 NOEC ENDPOINT Not Applicable	336 TES 96	TEST DURATION (HR) Not Applicable	Cri	ustacea SPEC Not Ap			E	0625mg/L	SOURC	CE blicable
ndeno[1,2,3-cd]pyrene	EC50 NOEC ENDPOINT Not Applicable ENDPOINT	TES	TEST DURATION (HR) Not Applicable	Cri SPECI	IES			E pplicable VALUE	0625mg/L	SOURC	CE blicable SOURCE
ndeno[1,2,3-cd]pyrene	EC50 NOEC ENDPOINT Not Applicable ENDPOINT LC50	336 TES 96	TEST DURATION (HR) Not Applicable	SPECI Fish Crusta	IUSTACEA SPEC Not Ap IES			E pplicable VALUE 0.213mg	0625mg/L	SOURC	CE Dicable SOURCE 4
	EC50 NOEC ENDPOINT Not Applicable ENDPOINT LC50 EC50	336 TES 96 48	TEST DURATION (HR) Not Applicable	SPECI Fish Crusta	IUSTACEA SPEC Not Ap IES	pplicable		E pplicable VALUE 0.213mg 1.6mg/L	0625mg/L y/L g/L	SOURC	CE Dicable SOURCE 4 4
	EC50 NOEC ENDPOINT Not Applicable ENDPOINT LC50 EC50 EC50	336 TES 96 48 72	TEST DURATION (HR) Not Applicable	SPEC Fish Crusta Algae	ILES ICEA	pplicable		E pplicable VALUE 0.213mg 1.6mg/L ca.0.4m 10.2mg/	0625mg/L y/L g/L	SOURC	CE blicable SOURCE 4 4 1
	EC50 NOEC ENDPOINT Not Applicable ENDPOINT LC50 EC50 EC50 EC50 BCF	336 TES 96 48 72 12	TEST DURATION (HR) Not Applicable	SPEC Fish Crusta Algae Fish	ILES ICEA	pplicable		E pplicable VALUE 0.213mg 1.6mg/L ca.0.4m 10.2mg/	0625mg/L /L g/L L 0085mg/L	SOURC	CE Dicable SOURCE 4 4 4 1 4
	EC50 NOEC ENDPOINT Not Applicable ENDPOINT LC50 EC50 EC50 BCF EC50	336 7TES 96 48 72 12 0.05 48	TEST DURATION (HR) Not Applicable	SPECI Fish Crusta Algae Fish Crusta Fish	ILES ICEA	pplicable		E pplicable VALUE 0.213mg 1.6mg/L ca.0.4m 10.2mg/ 0.00000 0.01281	0625mg/L /L g/L L 0085mg/L	SOURC Not App	Source 4 4 1 4 4

EC50	48	Crustacea	0.117mg/L	4
EC50	72	Algae or other aquatic plants	0.324mg/L	4
BCF	24	Algae or other aquatic plants	1mg/L	4
EC50	96	Fish	0.049mg/L	4
NOEC	2160	Fish	0.005mg/L	4

ENDPOINT TEST DURATION (HR) SPECIES VALUE SOURCE I C50 96 Fish 0.249ma/L 3 EC50 48 Crustacea 0.004327936mg/L 4 3 EC50 96 Algae or other aquatic plants 0.256mg/L pyrene BCF 24 Algae or other aquatic plants 4 0.5mg/L EC50 24 >=0.003- <=0.03mg/L 2 Crustacea NOEC 168 Fish 0.0152mg/L 4

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

For naphthalene:

Environmental Fate: Naphthalene may be reach surface water and soil through transportation in water or being carried by air. Most airborne naphthalene is in a vapour form and hence deposition is expected to be slow. A minimal amount of naphthalene emitted to the air is transported to other environmental components mostly by dry deposition. Naphthalene in surface water may volatililize into the atmosphere, depending on environmental condiditons. It remains in solution in water, with only small amounts associated with suspended material and benthic sediments. While naphthalene is readily volatilized from aerated soils, it adheres to soils with a high organic content. Adsorption to aquifer material reduces transportation of naphthalene is moderate in aquatic organisms. It is readily metabolized by fish, and invertebrates that are placed in pollutant free water rapidly eliminate any traces of the pollutant. While bioaccumulation in the food chain is unlikely, exposure of cows and chickers to naphthalene could lead to naphthalene being present in milk and eggs. While the data on the transport and partitioning of methylnaphthalenes in the environment is limited, the characteristics of these chemicals are similar to naphthalene biodegradation rates are higher in sediment than in the water column above it. Methylnaphthalenes is negradation. Degradation rates are higher in sediment than in the water column above it. Methylnaphthalenes biodegradation is an important factor for biological remediation of soil. Studies on biodegradation is accomplished through the accing rate and socie to the organic matter significantly reduces the bioavailability for microorganisms, and thus the biodegradation face that adsorption to the organic matter significantly reduces the bioavailability for microorganisms, and thus the biodegradation face that adsorption to the organic matter significantly reduces the bioavailability for microorganisms, and thus the biodegradation face that adsorption to the organic matter significantly reduces the

Ecotoxicity: Acute toxicity data on naphthalene for several fish species (freshwater and marine), show 96h LC50 values range from 1.8 to 7.8 mg/L. Comparable results were obtained with other vertebrates (amphibians). From chronic toxicity tests, a precise NOEL is not clearly determined. A NOEC of 0.12 mg/L was observed in a 40 days test on juvenile pink salmon, but 50% mortality at 0.11 mg/L was calculated for trout fry exposed during hatching.Several data are also available for invertebrates, showing 48h EC50 values ranging from 2.1 to 24 mg/L. While chronic data on freshwater invertebrates and algae are questionable, a 50% photosynthesis reduction was observed at 2.8 mg/L in 4 hours experiments.QSAR prediction models give results consistent with experimental short-term data on fish daphnia and algae.

For Polycyclic Aromatic Hydrocarbons (PAH's):

Environmental Fate: A general rule for biodegradation of PAHs is that parent compounds tend to degrade faster than alkylated analogs. Less is known about the biodegradability of resins and asphaltenes, but the current knowledge suggests these are not very biodegradable and will persist in the environment for a long time. The more hydrophobic a compound, the greater the partitioning to non-aqueous phases.

Atmospheric Fate: PAHs travel through the atmosphere as a gas or attached to dust particles. They are carried by air currents and deposited by dry or wet (rain, dew, etc.) deposition. Aquatic Fate: When deposited in water PAHs sink to the bottom of lakes and rivers. Some will move though the soil to contaminate groundwater. PAHs are ubiquitous in the marine environment, occurring at their highest environmental concentrations around urban centres. The availability of organic carbon controls, to a large extent, the partitioning behaviour of PAHs in sediment. Mixed microbial populations in sediment/water systems may degrade some PAHs, with degradation progressively decreasing with increasing molecular weight.

Terrestrial Fate: The rate of degradation is dependent on nutrient content and the bacterial community in soil. PAHs in soils undergo a weathering process such that the lighter chain fractions are removed (primarily by volatilization). Heavier fractions bind to soil organic matter and remain behind in the top soil horizon. As the mixture of PAHs age, bioavailability changes as the fraction remaining bind more tightly. In general, the more soluble a PAH, the higher the uptake by plants while the reverse is true for uptake by earthworms and uptake in the gastrointestinal tract of animals. Ecotoxicity: The primary mode of toxicity for PAHs in soil dwelling terrestrial invertebrates is non-specific non-polar narcosis. The uptake of PAHs by earthworms occurs primarily by direct contact with the soluble phase of soil solution. Microbial degradation of PAHs is a key process in soils. Biodegradation of PAHs may take place over a period of weeks to months. The ligh (fat) phase, of all organisms, contains the highest levels of PAHs. Accumulation of PAHs occurs in all marine organisms, however; there is a wide range in tissue concentrations resulting from variable environmental concentrations, level and time of exposure, and species ability to metabolize these compounds. In fish, bile and liver accumulate the highest levels of PAH and metabolites. In invertebrates, the highest concentrations can be found in the internal organs, such as the liver and pancreas; tissue concentrations appear to follow seasonal cycles which may be related to variations in lipid content or spawning cycles.

DO NOT discharge into sewer or waterwa

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
methylene chloride	LOW (Half-life = 56 days)	HIGH (Half-life = 191 days)
acenaphthene	HIGH (Half-life = 204 days)	LOW (Half-life = 0.37 days)
acenaphthylene	MEDIUM (Half-life = 120 days)	LOW (Half-life = 0.05 days)
anthracene	HIGH (Half-life = 920 days)	LOW (Half-life = 0.21 days)
benz[a]anthracene	HIGH (Half-life = 1360 days)	LOW (Half-life = 0.33 days)
benz[a]pyrene	HIGH (Half-life = 1060 days)	LOW (Half-life = 0.18 days)
benzo[b]fluoranthene	HIGH (Half-life = 1220 days)	LOW (Half-life = 0.6 days)
benzo[ghi]perylene	HIGH (Half-life = 1300 days)	LOW (Half-life = 0.13 days)
benzo[k]fluoranthene	HIGH (Half-life = 4280 days)	LOW (Half-life = 0.46 days)
chrysene	HIGH (Half-life = 2000 days)	LOW (Half-life = 0.33 days)

Legend:

Chemwatch: 9-407181

Catalogue number: PAH-HM16C Version No: 1.1

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Polycyclic Aromatic Hydrocarbons Standard Mixture

dibenz[a,h]anthracene	HIGH (Half-life = 1880 days)	LOW (Half-life = 0.18 days)
fluoranthene	HIGH (Half-life = 880 days)	LOW (Half-life = 0.84 days)
fluorene	MEDIUM (Half-life = 120 days)	LOW (Half-life = 2.84 days)
indeno[1,2,3-cd]pyrene	HIGH (Half-life = 1460 days)	LOW (Half-life = 0.26 days)
naphthalene	HIGH (Half-life = 258 days)	LOW (Half-life = 1.23 days)
phenanthrene	HIGH (Half-life = 400 days)	LOW (Half-life = 0.84 days)
pyrene	HIGH (Half-life = 3800 days)	LOW (Half-life = 0.33 days)

Bioaccumulative potential

Ingredient	Bioaccumulation
methylene chloride	LOW (BCF = 40)
acenaphthene	LOW (BCF = 387)
acenaphthylene	MEDIUM (BCF = 545)
anthracene	HIGH (BCF = 10500)
benz[a]anthracene	HIGH (LogKOW = 5.76)
benz[a]pyrene	HIGH (LogKOW = 6.13)
benzo[b]fluoranthene	HIGH (LogKOW = 5.78)
benzo[ghi]perylene	HIGH (LogKOW = 6.697)
chrysene	HIGH (LogKOW = 5.81)
dibenz[a,h]anthracene	HIGH (LogKOW = 6.697)
fluoranthene	HIGH (LogKOW = 5.16)
fluorene	MEDIUM (BCF = 830)
naphthalene	HIGH (BCF = 18000)
phenanthrene	MEDIUM (LogKOW = 4.46)
pyrene	HIGH (LogKOW = 4.88)

Mobility in soil

Ingradiant	Mobility
Ingredient	wobiiity
methylene chloride	LOW (KOC = 23.74)
acenaphthene	LOW (KOC = 6123)
acenaphthylene	LOW (KOC = 6123)
anthracene	LOW (KOC = 20400)
benz[a]anthracene	LOW (KOC = 231300)
benz[a]pyrene	LOW (KOC = 786800)
benzo[b]fluoranthene	LOW (KOC = 803100)
benzo[ghi]perylene	LOW (KOC = 2676000)
chrysene	LOW (KOC = 236100)
dibenz[a,h]anthracene	LOW (KOC = 2622000)
fluoranthene	LOW (KOC = 70850)
fluorene	LOW (KOC = 11290)
naphthalene	LOW (KOC = 1837)
phenanthrene	LOW (KOC = 20830)
pyrene	LOW (KOC = 69410)

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. Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: Reduction Reuse Recycling Disposal (if all else fails) This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

- DO NOT allow wash water from cleaning or process equipment to enter drains.
 It may be necessary to collect all wash water for treatment before disposal.
 In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.

SECTION 14 TRANSPORT INFORMATION

Labels Required Marine Pollutant

Land transport (DOT)

UN number	1593
UN proper shipping name	Dichloromethane
Transport hazard class(es)	Class6.1SubriskNot Applicable
Packing group	
Environmental hazard	Not Applicable
Special precautions for user	Hazard Label6.1Special provisionsIB3, IP8, N36, T7, TP2

Air transport (ICAO-IATA / DGR)

UN number	1593	1593		
UN proper shipping name	Dichloromethane			
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	6.1 Not Applicable 6L		
Packing group	Ш			
Environmental hazard	Not Applicable			
	Special provisions Cargo Only Packing I	nstructions	Not Applicable 663	
	Cargo Only Maximum	Cargo Only Maximum Qty / Pack		
Special precautions for user	Passenger and Cargo	Packing Instructions	655	
	Passenger and Cargo	Maximum Qty / Pack	60 L	
	Passenger and Cargo	Limited Quantity Packing Instructions	Y642	
	Passenger and Cargo	Limited Maximum Qty / Pack	2 L	

Sea transport (IMDG-Code / GGVSee)

UN number	1593
UN proper shipping name	DICHLOROMETHANE
Transport hazard class(es)	IMDG Class6.1IMDG SubriskNot Applicable
Packing group	III
Environmental hazard	Marine Pollutant
Special precautions for user	EMS NumberF-A, S-ASpecial provisionsNot ApplicableLimited Quantities5 L

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

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

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants
Monographs US - Alaska Limits for Air Contaminants	US - Washington Permissible exposure limits of air contaminants
US - California - Proposition 65 - Priority List for the Development of MADLs for Chemicals	US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values
Causing Reproductive Toxicity	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs (RELs)	US - Wyoming Toxic and Hazardous Substances Table Z-1 Limits for All Contaminants
US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs	Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift
(CRELs)	US ACGIH Threshold Limit Values (TLV)
US - California Permissible Exposure Limits for Chemical Contaminants	US ACGIH Threshold Limit Values (TLV) - Carcinogens
US - California Proposition 65 - Carcinogens	US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)
US - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens	US Clean Air Act - Hazardous Air Pollutants
US - Hawaii Air Contaminant Limits	US CWA (Clean Water Act) - Priority Pollutants
US - Idaho - Acceptable Maximum Peak Concentrations	US CWA (Clean Water Act) - Toxic Pollutants
US - Idaho - Limits for Air Contaminants	US EPA Carcinogens Listing
US - Massachusetts - Right To Know Listed Chemicals	US EPCRA Section 313 Chemical List
US - Michigan Exposure Limits for Air Contaminants	US National Toxicology Program (NTP) 14th Report Part B.
US - Minnesota Permissible Exposure Limits (PELs)	US NIOSH Recommended Exposure Limits (RELs)
US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL):	US OSHA Carcinogens Listing
Carcinogens	US OSHA Permissible Exposure Levels (PELs) - Table Z1
US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Mutagens	US OSHA Permissible Exposure Levels (PELs) - Table Z2
US - Oregon Permissible Exposure Limits (Z-1)	US Spacecraft Maximum Allowable Concentrations (SMACs) for Airborne Contaminants
US - Pennsylvania - Hazardous Substance List	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US - Rhode Island Hazardous Substance List	US TSCA New Chemical Exposure Limits (NCEL)
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	
US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants	
ACENAPHTHENE(83-32-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US CWA (Clean Water Act) - Priority Pollutants
Monographs	US CWA (Clean Water Act) - Toxic Pollutants
US - Massachusetts - Right To Know Listed Chemicals	US EPA Carcinogens Listing
US - Pennsylvania - Hazardous Substance List	US EPCRA Section 313 Chemical List
US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US Clean Air Act - Hazardous Air Pollutants	
ACENAPHTHYLENE(208-96-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
US - Massachusetts - Right To Know Listed Chemicals	US CWA (Clean Water Act) - Toxic Pollutants
US - Pennsylvania - Hazardous Substance List	US EPA Carcinogens Listing
US Clean Air Act - Hazardous Air Pollutants	US EPCRA Section 313 Chemical List
US CWA (Clean Water Act) - Priority Pollutants	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
ANTHRACENE(120-12-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US Clean Air Act - Hazardous Air Pollutants
Monographs	US CWA (Clean Water Act) - Priority Pollutants
US - Alaska Limits for Air Contaminants	US CWA (Clean Water Act) - Toxic Pollutants
US - Massachusetts - Right To Know Listed Chemicals	US EPA Carcinogens Listing
US - Pennsylvania - Hazardous Substance List	US EPCRA Section 313 Chemical List
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants	
US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)	
BENZ[A]ANTHRACENE(56-55-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS	i
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US ACGIH Threshold Limit Values (TLV)
Monographs	US ACGIH Threshold Limit Values (TLV) - Carcinogens
US - California - Proposition 65 - Priority List for the Development of MADLs for Chemicals	US Clean Air Act - Hazardous Air Pollutants
Causing Reproductive Toxicity	US CWA (Clean Water Act) - Priority Pollutants
US - California Proposition 65 - Carcinogens	US CWA (Clean Water Act) - Toxic Pollutants
US - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens	US EPA Carcinogens Listing
US - Massachusetts - Right To Know Listed Chemicals	US EPCRA Section 313 Chemical List
US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL):	US ET CITA Section 313 Chemical Elst

US National Toxicology Program (NTP) 14th Report Part B.

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

- US Massachusetts Right To Know Listed Chemicals US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL):
- Carcinogens
- US New Jersey Right to Know Special Health Hazard Substance List (SHHSL): Mutagens US - Pennsylvania - Hazardous Substance List
- US Rhode Island Hazardous Substance List
- US Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values
- BENZ[A]PYRENE(50-32-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Continued...

Catalogue number: PAH-HM16C **Polycyclic Aromatic Hydrocarbons Standard Mixture** Version No: 1.1 International Agency for Research on Cancer (IARC) - Agents Classified by the IARC US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants Monographs US - Alaska Limits for Air Contaminants US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values US - California - Proposition 65 - Priority List for the Development of MADLs for Chemicals US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants Causing Reproductive Toxicity US ACGIH Threshold Limit Values (TLV) US - California Proposition 65 - Carcinogens US ACGIH Threshold Limit Values (TLV) - Carcinogens US - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens US Clean Air Act - Hazardous Air Pollutants US - Hawaii Air Contaminant Limits US CWA (Clean Water Act) - Priority Pollutants US - Idaho - Limits for Air Contaminants US CWA (Clean Water Act) - Toxic Pollutants US - Massachusetts - Right To Know Listed Chemicals US EPA Carcinogens Listing US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): US EPCRA Section 313 Chemical List Carcinogens US National Toxicology Program (NTP) 14th Report Part B. US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Mutagens US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US - Pennsylvania - Hazardous Substance List US - Rhode Island Hazardous Substance List US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants BENZOIBIFLUORANTHENE(205-99-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS International Agency for Research on Cancer (IARC) - Agents Classified by the IARC US ACGIH Threshold Limit Values (TLV) Monographs US ACGIH Threshold Limit Values (TLV) - Carcinogens US - California - Proposition 65 - Priority List for the Development of MADLs for Chemicals US Clean Air Act - Hazardous Air Pollutants Causing Reproductive Toxicity US CWA (Clean Water Act) - Priority Pollutants US - California Proposition 65 - Carcinogens US CWA (Clean Water Act) - Toxic Pollutants US - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens US EPA Carcinogens Listing US - Massachusetts - Right To Know Listed Chemicals US EPCRA Section 313 Chemical List US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): US National Toxicology Program (NTP) 14th Report Part B. Carcinogens US - Pennsylvania - Hazardous Substance List US - Rhode Island Hazardous Substance List US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values BENZO[GHI]PERYLENE(191-24-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS International Agency for Research on Cancer (IARC) - Agents Classified by the IARC US CWA (Clean Water Act) - Priority Pollutants Monographs US CWA (Clean Water Act) - Toxic Pollutants US - Massachusetts - Right To Know Listed Chemicals US EPA Carcinogens Listing US - Pennsylvania - Hazardous Substance List US EPCRA Section 313 Chemical List US Clean Air Act - Hazardous Air Pollutants BENZO[K]FLUORANTHENE(207-08-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS International Agency for Research on Cancer (IARC) - Agents Classified by the IARC US CWA (Clean Water Act) - Priority Pollutants Monographs US CWA (Clean Water Act) - Toxic Pollutants US - California Proposition 65 - Carcinogens US EPA Carcinogens Listing US - Massachusetts - Right To Know Listed Chemicals US EPCRA Section 313 Chemical List US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): US National Toxicology Program (NTP) 14th Report Part B. Carcinogens US Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant Risk US - Pennsylvania - Hazardous Substance List Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values Chemicals Causing Reproductive Toxicity US Clean Air Act - Hazardous Air Pollutants CHRYSENE(218-01-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS International Agency for Research on Cancer (IARC) - Agents Classified by the IARC US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants Monographs US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values US - Alaska Limits for Air Contaminants US - California - Proposition 65 - Priority List for the Development of MADLs for Chemicals US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants Causing Reproductive Toxicity US ACGIH Threshold Limit Values (TLV) US - California Proposition 65 - Carcinogens US ACGIH Threshold Limit Values (TLV) - Carcinogens US - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens US Clean Air Act - Hazardous Air Pollutants US - Hawaii Air Contaminant Limits US CWA (Clean Water Act) - Priority Pollutants US - Idaho - Limits for Air Contaminants US CWA (Clean Water Act) - Toxic Pollutants US - Massachusetts - Right To Know Listed Chemicals US EPA Carcinogens Listing US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): US EPCRA Section 313 Chemical List Carcinogens US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US - Pennsylvania - Hazardous Substance List US - Rhode Island Hazardous Substance List US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants DIBENZIA.HIANTHRACENE(53-70-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS International Agency for Research on Cancer (IARC) - Agents Classified by the IARC US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values Monographs US Clean Air Act - Hazardous Air Pollutants US - California - Proposition 65 - Priority List for the Development of MADLs for Chemicals US CWA (Clean Water Act) - Priority Pollutants Causing Reproductive Toxicity US CWA (Clean Water Act) - Toxic Pollutants US - California Proposition 65 - Carcinogens US EPA Carcinogens Listing

US EPCRA Section 313 Chemical List

US National Toxicology Program (NTP) 14th Report Part B.

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

- US California Proposition 65 No Significant Risk Levels (NSRLs) for Carcinogens
- US Massachusetts Right To Know Listed Chemicals
- US New Jersey Right to Know Special Health Hazard Substance List (SHHSL):
- Carcinogens
- US New Jersey Right to Know Special Health Hazard Substance List (SHHSL): Mutagens

US - Pennsylvania - Hazardous Substance List

US - Rhode Island Hazardous Substance List

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FLUORANTHENE(206-44-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US CWA (Clean Water Act) - Priority Pollutants
Monographs	US CWA (Clean Water Act) - Toxic Pollutants
US - Massachusetts - Right To Know Listed Chemicals	US EPA Carcinogens Listing
JS - Pennsylvania - Hazardous Substance List	US EPCRA Section 313 Chemical List
JS ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US Clean Air Act - Hazardous Air Pollutants	
LUORENE(86-73-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
nternational Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US CWA (Clean Water Act) - Priority Pollutants
Nonographs	US CWA (Clean Water Act) - Toxic Pollutants
JS - Massachusetts - Right To Know Listed Chemicals	US EPA Carcinogens Listing
JS - Pennsylvania - Hazardous Substance List	US EPCRA Section 313 Chemical List
JS ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
JS Clean Air Act - Hazardous Air Pollutants	
NDENO[1,2,3-CD]PYRENE(193-39-5) IS FOUND ON THE FOLLOWING REGULATORY	LISTS
nternational Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US CWA (Clean Water Act) - Priority Pollutants
Nonographs	US CWA (Clean Water Act) - Toxic Pollutants
JS - California Proposition 65 - Carcinogens	US EPA Carcinogens Listing
JS - Massachusetts - Right To Know Listed Chemicals	US EPCRA Section 313 Chemical List
JS - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL):	US National Toxicology Program (NTP) 14th Report Part B.
Carcinogens	US Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant Ris
JS - Pennsylvania - Hazardous Substance List	Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for
US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values	Chemicals Causing Reproductive Toxicity
JS Clean Air Act - Hazardous Air Pollutants	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
APHTHALENE(91-20-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
nternational Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants
US - Alaska Limits for Air Contaminants	US - Washington Permissible exposure limits of air contaminants
US - California - Proposition 65 - Priority List for the Development of MADLs for Chemicals	US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values
Causing Reproductive Toxicity	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
JS - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs	US ACGIH Threshold Limit Values (TLV)
CRELs)	US ACGIH Threshold Limit Values (TLV) - Carcinogens
US - California Permissible Exposure Limits for Chemical Contaminants	US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)
JS - California Proposition 65 - Carcinogens	US Clean Air Act - Hazardous Air Pollutants
JS - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens	US CWA (Clean Water Act) - List of Hazardous Substances
US - Hawaii Air Contaminant Limits	US CWA (Clean Water Act) - Priority Pollutants
JS - Idaho - Limits for Air Contaminants	US CWA (Clean Water Act) - Toxic Pollutants
US - Massachusetts - Right To Know Listed Chemicals	US EPA Carcinogens Listing
US - Michigan Exposure Limits for Air Contaminants	US EPCRA Section 313 Chemical List
US - Minnesota Permissible Exposure Limits (PELs)	US National Toxicology Program (NTP) 14th Report Part B.
US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL):	US NIOSH Recommended Exposure Limits (RELs)
Carcinogens	US OSHA Permissible Exposure Levels (PELs) - Table Z1
US - Oregon Permissible Exposure Limits (Z-1)	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
JS - Pennsylvania - Hazardous Substance List	
JS - Rhode Island Hazardous Substance List	
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	
US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants	
PHENANTHRENE(85-01-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
nternational Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants
Nonographs	US - Washington Permissible exposure limits of air contaminants
JS - Alaska Limits for Air Contaminants	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
JS - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs	US Clean Air Act - Hazardous Air Pollutants
CRELs)	US CWA (Clean Water Act) - Priority Pollutants
JS - California Permissible Exposure Limits for Chemical Contaminants	US CWA (Clean Water Act) - Toxic Pollutants
JS - Hawaii Air Contaminant Limits	US EPA Carcinogens Listing
JS - Massachusetts - Right To Know Listed Chemicals	US EPCRA Section 313 Chemical List
JS - Michigan Exposure Limits for Air Contaminants	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
JS - Oregon Permissible Exposure Limits (Z-1)	
JS - Pennsylvania - Hazardous Substance List	
YRENE(129-00-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
nternational Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US - Washington Permissible exposure limits of air contaminants
Monographs	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
JS - Alaska Limits for Air Contaminants	US Clean Air Act - Hazardous Air Pollutants
JS - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs	US CWA (Clean Water Act) - Priority Pollutants
(CRELs)	US CWA (Clean Water Act) - Toxic Pollutants
JS - California Permissible Exposure Limits for Chemical Contaminants	US EPA Carcinogens Listing
JS - Hawaii Air Contaminant Limits	US EPCRA Section 313 Chemical List
US - Massachusetts - Right To Know Listed Chemicals	US SARA Section 302 Extremely Hazardous Substances
US - Michigan Exposure Limits for Air Contaminants	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US - Oregon Permissible Exposure Limits (Z-1)	

- US Michigan Exposure Limits for Air Contaminants
- US Oregon Permissible Exposure Limits (Z-1)
- US Pennsylvania Hazardous Substance List
- US Tennessee Occupational Exposure Limits Limits For Air Contaminants
- Federal Regulations

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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate (acute) health hazard Yes
Delayed (chronic) health hazard Yes
Fire hazard No
Pressure hazard No
Reactivity hazard No

US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

Name	Reportable Quantity in Pounds (Ib)	Reportable Quantity in kg
Dichloromethane	1000	454
Acenaphthene	100	45.4
Acenaphthylene	5000	2270
Anthracene	5000	2270
Benz[a]anthracene	10	4.54
Benzo[a]pyrene	1	0.454
Benzo[b]fluoranthene	1	0.454
Benzo[ghi]perylene	5000	2270
Benzo(k)fluoranthene	5000	2270
Chrysene	100	45.4
Dibenz[a,h]anthracene	1	0.454
Fluoranthene	100	45.4
Fluorene	5000	2270
Indeno(1,2,3-cd)pyrene	100	45.4
Naphthalene	100	45.4
Phenanthrene	5000	2270
Pyrene	5000	2270

State Regulations

US. CALIFORNIA PROPOSITION 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm

US - CALIFORNIA PREPOSITION 65 - CARCINOGENS & REPRODUCTIVE TOXICITY (CRT): LISTED SUBSTANCE

Dichloromethane (Methylene chloride), Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[k]fluoranthene, Chrysene, Dibenz[a,h]anthracene, Indeno[1,2,3-cd]pyrene, Naphthalene Listed

National Inventory	Status	
Australia - AICS	Υ	
Canada - DSL	N (fluoranthene; benz[a]anthracene; dibenz[a,h]anthracene; indeno[1,2,3-cd]pyrene; benzo[k]fluoranthene; acenaphthylene; benzo[b]fluoranthene; benzo[b]flu	
Canada - NDSL	N (benz[a]pyrene; acenaphthene; pyrene; naphthalene; chrysene; phenanthrene; methylene chloride; fluorene; benzo[k]fluoranthene; benzo[b]fluoranthene; benzo[gh]perylene; anthracene)	
China - IECSC	N (chrysene; indeno[1,2,3-cd]pyrene; benzo[k]fluoranthene; acenaphthylene; benzo[b]fluoranthene; benzo[ghi]perylene)	
Europe - EINEC / ELINCS / NLP	Y	
Japan - ENCS	N (benz[a]pyrene; pyrene; fluoranthene; chrysene; benz[a]anthracene; phenanthrene; dibenz[a,h]anthracene; indeno[1,2,3-cd]pyrene; benzo[k]fluoranthene; acenaphthylene; benzo[b]fluoranthene; benzo[ghi]perylene)	
Korea - KECI	N (fluoranthene; benz[a]anthracene; dibenz[a,h]anthracene; indeno[1,2,3-cd]pyrene; benzo[k]fluoranthene; acenaphthylene; benzo[b]fluoranthene; benzo[ghi]perylene)	
New Zealand - NZIoC	Υ	
Philippines - PICCS	N (fluoranthene; chrysene; benz[a]anthracene; dibenz[a,h]anthracene; indeno[1,2,3-cd]pyrene; benzo[k]fluoranthene; benzo[b]fluoranthene; benzo[ghi]perylene)	
USA - TSCA	N (benzo[k]fluoranthene; benzo[b]fluoranthene; benzo[ghi]perylene)	
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)	

SECTION 16 OTHER INFORMATION

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chernwatch 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

end of SDS

Polycyclic Aromatic Hydrocarbons Standard Mixture

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 OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors

BEI: Biological Exposure Index

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