Orfom® MCS

Version 1.1 Revision Date 2016-06-01

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product information

Product Name : Orfom® MCS
Material : 1116197, 1116158, 1113750, 1113589, 1113586, 1113584

Company : Chevron Phillips Chemical Company LP
10001 Six Pines Drive
The Woodlands, TX 77380

Local : Chevron Phillips Chemicals International N.V.
Airport Plaza (Stockholm Building)
Leonardo Da Vincilaan 19
1831 Diegem
Belgium

SDS Requests: (800) 852-5530
Technical Information: (832) 813-4862
Responsible Party: Product Safety Group
Email:sds@cpchem.com

Emergency telephone:

Health:
866.442.9628 (North America)
1.832.813.4984 (International)
Transport:
CHEMTREC 800.424.9300 or 703.527.3887(int'l)
Asia: +800 CHEMCALL (+800 2436 2255) China:+86-21-22157316
EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Responsible Department : Product Safety and Toxicology Group
E-mail address : SDS@CPChem.com
Website : www.CPChem.com

SECTION 2: Hazards identification

Classification of the substance or mixture
REGULATION (EC) No 1272/2008

Skin irritation, Category 2 H315:

	Causes skin irritation.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Acute aquatic toxicity, Category 2	H401: Toxic to aquatic life.
Chronic aquatic toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal Word : Danger

Hazard Statements :	H304	May be fatal if swallowed and enters airways.
	H315	Causes skin irritation.
	H411	Toxic to aquatic life with long lasting effects.
Precautionary Statements :	**Prevention:**	
	P273	Avoid release to the environment.
	P280	Wear protective gloves.
	Response:	
	P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
	P331	Do NOT induce vomiting.
	P362 + P364	Take off contaminated clothing and wash it before reuse.
	P391	Collect spillage.

Hazardous ingredients which must be listed on the label:
- 64742-47-8 Distillates (petroleum), Hydrotreated light

SECTION 3: Composition/information on ingredients

Synonyms : Low Aromatic Solvent
Solvent

Molecular formula : UVCB

Mixtures

Hazardous ingredients

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
Distillates (petroleum), Hydrotreated light	64742-47-8 265-149-8	Skin Irrit. 2; H315 Asp. Tox. 1; H304	100

	649-422-00-2	Aquatic Chronic 2; H411	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

General advice	:	Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.
If inhaled	:	If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	:	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

SECTION 5: Firefighting measures

Flash point	:	77 °C (170 °F)
Autoignition temperature	:	Not applicable
Suitable extinguishing media	:	Carbon dioxide (CO_2).
Unsuitable extinguishing media	:	High volume water jet.
Specific hazards during fire fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
Fire and explosion protection	:	Do not spray on an open flame or any other incandescent material. Keep away from open flames, hot surfaces and sources of ignition.
Hazardous decomposition	:	Hydrocarbons. Carbon oxides.

products

SECTION 6: Accidental release measures

Personal precautions	:	Use personal protective equipment. Ensure adequate ventilation.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods for cleaning up	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Handling

Advice on safe handling	:	Avoid formation of aerosol. Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	:	Do not spray on an open flame or any other incandescent material. Keep away from open flames, hot surfaces and sources of ignition.

Storage

Requirements for storage areas and containers	:	No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

SK

Zložka	Podstata	Hodnota	Kontrolné parametre	Poznámka
Distillates (petroleum), Hydrotreated light	SK OEL	NPEL priemerný	50 ppm, 300 mg/m3	1),
	SK OEL	NPEL krátkodobý	100 ppm, 600 mg/m3	1),
	SK OEL	NPEL priemerný	5 ppm, 1 mg/m3	2),
	SK OEL	NPEL krátkodobý	15 ppm, 3 mg/m3	2),
	SK OEL	NPEL krátkodobý	15 ppm, 3 mg/m3	2), kvapalný aerosól
	SK OEL	NPEL priemerný	5 ppm, 1 mg/m3	2), kvapalný aerosól

1) Toxicita (karcinogenita) závisí od obsahu aromatických uhľovodíkov (benzén, toluén, xylén, etylbenzén, kumén). Limit je stanovený pre lakový benzín, ktorého obsah karcinogénneho benzénu nie je vyšší ako 0,2 obj. % (0,1 hmot. %).
2) Limit sa vzťahuje na hydraulické a obrábacie kvapaliny a mazivá. Niektoré oleje môžu obsahovať polycyklické aromatické uhľovodíky a pri zahrievaní ich môžu uvoľňovať. Treba to brať do úvahy pri meraní a hodnotení rizika

SE

Beståndsdelar	Grundval	Värde	Kontrollparametrar	Anmärkning
Distillates (petroleum), Hydrotreated light	SE AFS	NGV	350 mg/m3	18,
	SE AFS	KTV	500 mg/m3	18,
	SE AFS	NGV	30 ppm, 60 mg/m3	H, 36,
	SE AFS	KTV	175 ppm, 350 mg/m3	H, 36,

18 Gränsvärdet avser alifatiska kolväten i ångform, dvs. upp till 12 kolatomer. Vid exponering för kolväten med mer än 12 kolatomer, som förekommer i form av aerosol, partiklar eller vätskedroppar, tillämpas gränsvärdet för organiskt damm och dimma 5 mg/m3. Gränsvärdet gäller inte för aromatfri lacknafta (< 2 viktprocent) som har eget gränsvärde.
36 Avser lacknafta, dvs. petroleumnafta med sina huvudsakliga beståndsdelar i området C7 till C12 och med mindre än 0,1 viktprocent bensen. Jämför not 40 om petroleumnafta. Angivet ungefärligt värde uttryckt i ppm är för lacknafta med 2-25 procent aromater beräknat på lacknafta med 22 viktprocent aromater. Angivet ungefärligt värde uttryckt i ppm är för lacknafta med < 2 viktprocent aromater beräknat på aromatfri lacknafta med 50 % cykliska alifater.
H Ämnet kan lätt upptas genom huden.

RU

Компоненты	Основа	Величина	Параметры контроля	Заметка
Distillates (petroleum), Hydrotreated light	RU OEL	ПДК	100 mg/m3	4, пары и/или газы
	RU OEL	ПДК разовая	300 mg/m3	4, пары и/или газы

4 4 класс - умеренно опасные

RO

Componente	Bază	Valoare	Parametri de control	Notă
Distillates (petroleum), Hydrotreated light	RO OEL	TWA	5 mg/m3	
	RO OEL	STEL	10 mg/m3	

PT

Componentes	Bases	Valor	Parâmetros de controlo	Nota
Distillates (petroleum), Hydrotreated light	PT OEL	VLE-MP	200 mg/m3	P, A3, (P), irritação do TRS, afeção do SNC,
	PT OEL	VLE-MP	5 mg/m3	(O), ( ),
	PT OEL	VLE_CD	10 mg/m3	( ),
	PT OEL	VLE-MP	200 mg/m3	P, A3, (P), irritação do TRS, afeção do SNC, Vapor
	PT OEL	VLE-MP	5 mg/m3	(O), ( ), Aerosol
	PT OEL	VLE_CD	10 mg/m3	( ), Aerosol

( ) Os valores ou características encontram-se propostos para alteração
(O) A amostragem deve ser realizada com um método que não recolha vapor.
(P) Aplicação restrita às condições nas quais são negligenciáveis as exposições a aerossóis
A3 Agente carcinogénico confirmado nos animais de laboratório com relevância desconhecida no Homem.
afeção do SNC afeção do sistema nervoso central
irritação do TRS irritação do trato respiratório superior
P Perigo de absorção cutânea

PL

Składniki	Podstawa	Wartość	Parametry dotyczące kontroli	Uwaga
Distillates (petroleum), Hydrotreated light	PL NDS	NDS	5 mg/m3	Aerozol
	PL NDS	NDSch	10 mg/m3	Aerozol

NO

Komponenter	Grunnlag	Verdi	Kontrollparametere	Nota
Distillates (petroleum), Hydrotreated light	FOR-2011-12-06-1358	TWA	50 ppm, 275 mg/m3	
	FOR-2011-12-06-1358	TWA	40 ppm, 275 mg/m3	
	FOR-2011-12-06-1358	TWA	50 mg/m3	Damp
	FOR-2011-12-06-1358	TWA	1 mg/m3	Tåke - partikler

NL

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Distillates (petroleum), Hydrotreated light	NL WG	TGG-8 uur	5 mg/m3	
	NL WG	TGG-8 uur	5 mg/m3	Nevels

LT

Komponentai	Pagrindas, bazė	Vertė	Kontrolės parametrai	Pastaba
Distillates (petroleum), Hydrotreated light	LT OEL	IPRD	350 mg/m3	
	LT OEL	TPRD	500 mg/m3	

HR

Sastojci	Temelj	Vrijednost	Nadzorni parametri	Bilješka
Distillates (petroleum), Hydrotreated light	HR OEL	GVI	100 ppm, 400 mg/m3	2, 2, T,

2 Karc. kat. 2: tvari koje su vjerojatno karcinogene za ljude
T Otrovno

ES

Componentes	Base	Valor	Parámetros de control	Nota
Distillates (petroleum), Hydrotreated light	ES VLA	VLA-ED	5 mg/m3	am, Niebla
	ES VLA	VLA-EC	10 mg/m3	am, Niebla

am El valor se aplica al aceite mineral refinado y no a los aditivos que pudiera llevar en su formulación.

EE

Komponendid, osad	Alused	Väärtus	Kontrolliparameetrid	Märkused
Distillates (petroleum), Hydrotreated light	EE OEL	Piirnorm	350 mg/m3	11,
	EE OEL	Lühiajalise kokkupuute piirnorm	500 mg/m3	11,
	EE OEL	Piirnorm	5 mg/m3	
	EE OEL	Piirnorm	1 mg/m3	Aur

11 Süsivesinike piirnormid on arvutatud auru faasile. Üle 12 süsinikuaatomiga alifaatsetel süsivesinikel (tridekaanid ja kõrgemad) on 20 °C juures küllastussisaldus < 350 mg/m3. Aerosoolsete süsivesinike piirnorm on 5 mg/m3.

CZ

Složky	Základ	Hodnota	Kontrolní parametry	Poznámka
Distillates (petroleum), Hydrotreated light	CZ OEL	PEL	5 mg/m3	Aerosol
	CZ OEL	NPK-P	10 mg/m3	Aerosol

BE

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Distillates (petroleum), Hydrotreated light	BE OEL	TGG 8 hr	200 mg/m3	D,

D Opname van het agens via de huid, de slijmvliezen of de ogen vormt een belangrijk deel van de totale blootstelling. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.

Engineering measures

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

Respiratory protection : Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as:. Air-Purifying Respirator for Organic Vapors. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the

product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection	:	Eye wash bottle with pure water. Tightly fitting safety goggles.
Skin and body protection	:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Flame-resistant clothing. Footwear protecting against chemicals.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state	:	Liquid
Color	:	Clear, Colorless
Odor	:	characteristic

Safety data

Flash point	:	77 °C (170 °F)
Lower explosion limit	:	Not applicable
Upper explosion limit	:	Not applicable
Autoignition temperature	:	Not applicable
Molecular formula	:	UVCB
Molecular weight	:	Not applicable
pH	:	Not applicable
Pour point	:	-21 °C (-6 °F)
Boiling point/boiling range	:	207 - 274 °C (405 - 526 °F) Method: ASTM D 86
Vapor pressure	:	0,28 PSI Method: ASTM D5191
Relative density	:	0,8238 at 15 °C (59 °F)
Density	:	6,8 L/G
Water solubility	:	Negligible
Partition coefficient: n-octanol/water	:	No data available
Viscosity, kinematic	:	2,12 cSt at 40 °C (104 °F)

		Method: ASTM D 445
Relative vapor density	:	Not applicable
Evaporation rate	:	No data available

SECTION 10: Stability and reactivity

Chemical stability	:	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Possibility of hazardous reactions

Conditions to avoid	:	Heat, flames and sparks.
Materials to avoid	:	May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Hazardous decomposition products	:	Hydrocarbons Carbon oxides
Other data	:	No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

Orfom® MCS
Acute oral toxicity : LD50 Oral: > 5.000 mg/kg
Species: Rat
Method: Acute toxicity estimate

Orfom® MCS
Acute inhalation toxicity : LC50: > 20 mg/l
Species: Rat
Test atmosphere: vapor
Method: Acute toxicity estimate

Orfom® MCS
Acute dermal toxicity : LD50 Dermal: > 5.000 mg/kg
Species: Rabbit
Method: Acute toxicity estimate

Orfom® MCS
Skin irritation : Irritating to skin.
May cause skin irritation in susceptible persons.

Orfom® MCS
Eye irritation : May irritate eyes.
Vapors may cause irritation to the eyes, respiratory system and the skin.

Orfom® MCS
Sensitization : Did not cause sensitization on laboratory animals.
Information refers to the main ingredient.

Repeated dose toxicity

Distillates (petroleum), Hydrotreated light : Sex: male
Application Route: inhalation (vapor)
Dose: 0 , 500, 1000 mg/m3
Exposure time: 13 wks
Number of exposures: 24 h/d
Lowest observable effect level: 500 mg/m3
Method: OECD Guideline 413
Target Organs: Liver

Application Route: inhalation (vapor)
Dose: 0 , 500, 1000 mg/m3
Exposure time: 13 wks
Number of exposures: 24 h/d
NOEL: > 1000 mg/m3
Method: OECD Guideline 413
No adverse effect has been observed in chronic toxicity tests.

Orfom® MCS
Carcinogenicity : Method: Estimated based on individual component values.
Remarks: Not expected to be carcinogenic based on individual component data.

Developmental Toxicity

Distillates (petroleum), Hydrotreated light : Species: Rat
Application Route: Inhalation
Dose: 0, 106, 364 mg/l
Exposure time: 6h/d
Test period: GD 6 - 20
NOAEL Teratogenicity: >= 364 mg/l
NOAEL Maternal: >= 364 mg/l

Species: Rat
Application Route: oral gavage
Dose: 500, 1000, 1500, 2000 mg/kg/d
Exposure time: 10 d
Test period: GD 6 - 15
Method: OECD Guideline 414
NOAEL Teratogenicity: 1.000 mg/kg
NOAEL Maternal: 500 mg/kg

Orfom® MCS
Aspiration toxicity : May be fatal if swallowed and enters airways.
Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.

Orfom® MCS
Further information : Solvents may degrease the skin. Inhalation of high vapor concentrations can cause CNS-depression and narcosis.
Solvents may degrease the skin.

SECTION 12: Ecological information

Toxicity to fish

Distillates (petroleum), Hydrotreated light	:	NOEC: 2 mg/l Exposure time: 96 h Species: Salmo gairdneri (Rainbow trout) Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

Distillates (petroleum), Hydrotreated light	:	EL50: 1,4 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202

Toxicity to algae

Distillates (petroleum), Hydrotreated light	:	EL50: 1 - 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Distillates (petroleum), Hydrotreated light	:	NOEC: 0,48 mg/l Exposure time: 21 Days Species: Daphnia magna (Water flea)

Elimination information (persistence and degradability)

Biodegradability	:	Taking into consideration the properties of several ingredients, the product is estimated to be biodegradable according to OECD classification.

Ecotoxicology Assessment

Acute aquatic toxicity	:	Toxic to aquatic life.
Chronic aquatic toxicity	:	Toxic to aquatic life with long lasting effects.
Toxicity Data on Soil	:	No data available
Other organisms relevant to the environment	:	No data available
Impact on Sewage Treatment	:	No data available
Results of PBT assessment	:	This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Additional ecological information : Toxic to aquatic life with long lasting effects.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product : The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

Testing (ASTM D4206) has shown product does not sustain combustion.

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DISTILLATES (PETROLEUM) HYDROTREATED LIGHT), 9, III, (77 °C), MARINE POLLUTANT, (DISTILLATES (PETROLEUM) HYDROTREATED LIGHT)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DISTILLATES

(PETROLEUM) HYDROTREATED LIGHT), 9, III

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))
UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DISTILLATES (PETROLEUM) HYDROTREATED LIGHT), 9, III, (E)

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))
UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DISTILLATES (PETROLEUM) HYDROTREATED LIGHT), 9, III

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)
UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DISTILLATES (PETROLEUM) HYDROTREATED LIGHT), 9, III

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

National legislation

Major Accident Hazard Legislation : 96/82/EC Update:
Not applicable

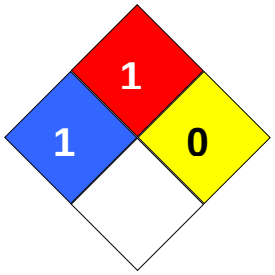
Water contaminating class (Germany) : WGK 1 slightly water endangering
VwVwS
Not classified as carcinogenic (R 45)

Notification status

Europe REACH	:	This mixture contains only ingredients which have been subject to a pre-registration according to Regulation (EU) No. 1907/2006 (REACH).
United States of America TSCA	:	On TSCA Inventory
Canada DSL	:	All components of this product are on the Canadian DSL
Australia AICS	:	On the inventory, or in compliance with the inventory
New Zealand NZIoC	:	On the inventory, or in compliance with the inventory
Japan ENCS	:	On the inventory, or in compliance with the inventory
Korea KECI	:	On the inventory, or in compliance with the inventory
Philippines PICCS	:	On the inventory, or in compliance with the inventory
China IECSC	:	On the inventory, or in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 1
Fire Hazard: 1
Reactivity Hazard: 0



Further information

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act

KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

Full text of H-Statements referred to under sections 2 and 3.

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.