	MATERIAL SAFETY DATA SHEET	MSDS No.
oomchemAG	PERCHLOROETHYLENE	Effective From

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : Tetrachloroethylene(Perchlorethylene)

Supplier: BLOOMCHEMAG BV

Address: Sint - Antoniusstraat 16 b1,

B-2400 Mol, Belgium.

Phone No.: +91 72919 74484 / 72919 74050

E-mail: info@bloomchemag.com

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

According to Regulation (EC) No1272/2008

Carcinogenicity (Category 2)

Chronic aquatic toxicity (Category 2)

According to European Directive 67/548/EEC as amended.

Limited evidence of a carcinogenic effect. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements



Pictogram Signal word Warning Hazard statement(s) H351 Suspected of causing cancer. H411 Toxic to aquatic life with long lasting effects. Precautionary statement(s) P273 Avoid release to the environment. P281 Use personal protective equipment as required. Hazard symbol(s) Xn Harmful N Dangerous for the environment R-phrase(s) R40 Limited evidence of a carcinogenic effect. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

M-01

S-phrase(s) S23 Do not breathe gas/fumes/vapour/spray. S36/37 Wear suitable protective clothing and gloves. S61 Avoid release to the environment. Refer to special instructions/ Safety data **Other hazards** - none **3. COMPOSITION/INFORMATION ON INGREDIENTS** Synonyms : Perchloroethylene(PCE) Formula : C2Cl4 Molecular Weight : 165,83 g/mol

CAS-No. EC-No. Index-No. Classification Concentration

Tetrachloroethylene

127-18-4 204-825-9 602-028-00-4 Carc. 2; Aquatic Chronic 2; H351, H411 Xn, N, Carc.Cat.3, R40 -R51/53

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

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid inhalation of vapour or mist.

Normal measures for preventive fire protection.

Conditions for safe storage

Store in cool place. 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Handle with gloves.

Eye protection

Safety glasses with side-shields conforming to EN166

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form liquid, clear

Colour colourless

Safety data

pH no data available Melting point -22 °C - lit. Boiling point 121 °C - lit. Flash point no data available Ignition temperature no data available Lower explosion limit no data available Upper explosion limit no data available Vapour pressure 25,3 hPa at 25,0 °C 17,3 hPa at 20,0 °C Density 1,623 g/cm3 at 25 °C Water solubility no data available Partition coefficient: n-octanol/water

log Pow: 3,40

10. STABILITY AND REACTIVITY Chemical stability Stable under recommended storage conditions. **Conditions to avoid** no data available Materials to avoid Strong oxidizing agents, Strong bases Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas **11. TOXICOLOGICAL INFORMATION** Acute toxicity LD50 Oral - rat - 2.629 mg/kg LC50 Inhalation - rat - 8 h - 34.200 mg/m3 Skin corrosion/irritation Skin - rabbit - Severe irritation - 24 h Serious eye damage/eye irritation Eyes - rabbit - Mild eye irritation - 24 h **Respiratory or skin sensitization** no data available Germ cell mutagenicity no data available Carcinogenicity Limited evidence of carcinogenicity in animal studies IARC: 2A - Group 2A: Probably carcinogenic to humans (Tetrachloroethylene) **Reproductive toxicity** no data available Specific target organ toxicity - single exposure no data available Specific target organ toxicity - repeated exposure no data available **Aspiration hazard** no data available Potential health effects Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation. Signs and Symptoms of Exposure narcosis, Liver injury may occur., Kidney injury may occur. **Additional Information** RTECS: KX3850000 **12. ECOLOGICAL INFORMATION** Toxicity Toxicity to fish LC50 - Cyprinodon variegatus (sheepshead minnow) - 9,8 mg/l - 96,0 h

LC50 - Lepomis macrochirus (Bluegill) - 13 mg/l - 96,0 h

LC50 - Oncorhynchus mykiss (rainbow trout) - 4,9 mg/l - 96,0 h

NOEC - Oryzias latipes - 17 mg/l - 10,0 d

NOEC - Cyprinodon variegatus (sheepshead minnow) - 29 mg/l - 96,0 h

Toxicity to daphnia

and other aquatic

invertebrates.

EC50 - Daphnia magna (Water flea) - 7,50 mg/l - 48 h

Persistence and degradability

Bioaccumulative potential

Bioaccumulation Lepomis macrochirus (Bluegill) - 21 d

Bioconcentration factor (BCF): 49

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

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

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID

UN-Number: 1897 Class: 6.1 Packing group: III Proper shipping name: TETRACHLOROETHYLENE

IMDG

UN-Number: 1897 Class: 6.1 Packing group: III EMS-No: F-A, S-A Proper shipping name: TETRACHLOROETHYLENE Marine pollutant: Marine pollutant

IATA

UN-Number: 1897 Class: 6.1 Packing group: III

Proper shipping name: Tetrachloroethylene

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. OTHER INFORMATION

Text of H-code(s) and R-phrase(s) mentioned in Section 3

Aquatic Chronic Chronic aquatic toxicity

Carc. Carcinogenicity

H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects.

N Dangerous for the environment

Xn Harmful

R40 Limited evidence of a carcinogenic effect.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.