

Material Safety Data Sheet

According to 91/155 EEC

Printing date 20.09.2006

Reviewed on 20.09.2006

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** COALTAR
- **Article number:** CT-S/3
- **Application of the substance / the preparation** *Cleaning agent/ Cleaner*
- **Manufacturer/Supplier:**
 STARMARINE
 IJsvogelstraat 1
 3145XP Maassluis
 The Netherlands
 Tel: +31-(0)10-5925831
 Fax: +31-(0)10-5902995
- **Further information obtainable from:** *Safety Department*

2 Composition/information on ingredients

- **Chemical characterization**
- **Description:** *Cleansing agent*

- **Dangerous components:**

CAS: 95-73-8 EINECS: 202-445-8	2,4-dichlorotoluene	Xn; R 20/21/22	50-100%
CAS: 79-01-6 EINECS: 201-167-4	trichloroethylene	Carc. Cat. 2, Muta. Cat. 3; T, Xi; R 45-36/38-52/53-67	10-25%
	Detergent	Xi, N; R 36/38-51/53	10-25%

3 Hazards identification

- **Hazard description:**
Xn Harmful
- **Information concerning particular hazards for human and environment:**
R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R 40 Limited evidence of a carcinogenic effect.
R 41 Risk of serious damage to eyes.
R 53 May cause long-term adverse effects in the aquatic environment.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4 First-aid measures

- **General information:**
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** *Immediately rinse with water.*
- **After eye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.*
- **After swallowing:** *Call for a doctor immediately.*

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5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** Mount respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective clothing.
- **Measures for environmental protection:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Dilute with plenty water.
Ensure adequate ventilation.
Dispose of the material collected according to regulations.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Store in cool, dry place in tightly closed receptacles.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Avoid contact with the eyes and skin.
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:** Protective gloves
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed goggles
- **Body protection:** Solvent resistant protective clothing

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9 Physical and chemical properties

· General Information

Form:	Fluid
Colour:	Light yellow
Odour:	Characteristic

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 87°C

· **Flash point:** 79°C

· **Ignition temperature:** 410°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· Explosion limits:

Lower:	7.9 Vol %
Upper:	90.0 Vol %

· **Vapour pressure at 20°C:** 77 hPa

· **Density at 20°C:** 1.22000 g/cm³

· **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:**
Hydrocarbons
Halogenated hydrocarbons

11 Toxicological information

· Acute toxicity:

· LD/LC50 values relevant for classification:

237205-87-1 Isononylphenolethoxylate

Oral	LD50	>200 - 2000 mg/kg (rat)
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Detergent

Oral	LD50	>2000 mg/kg (rat)
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· Primary irritant effect:

- **on the skin:** No irritant effect.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.

· Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful
Irritant

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12 Ecological information

· **Ecotoxicological effects:**

· **Acquatic toxicity:**

237205-87-1 Isononylphenoethoxylate

% Biodegradability	<70%,28d (-)
Biodegradability	not easily (-)
EC50/ 48 h	1-10 mg/l (daphnia)
EC50/ 72 h	1-10 mg/l (algae)
LC50/ 96 h	1-10 mg/l (fish)

Detergent

% Biodegradability	<70%,28d (-)
Biodegradability	not easily (-)
EC50/ 48 h	1-10 mg/l (daphnia)
EC50/ 72 h	1-10 mg/l (algae)
LC50/ 96 h	1-10 mg/l (fish)

· **General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.

13 Disposal considerations

· **Product:**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **Land transport ADR/RID (cross-border)**

- **ADR/RID class:** 6.1 (T1) Toxic substances.
- **Danger code (Kemler):** 60
- **UN-Number:** 2810
- **Packaging group:** III
- **Hazard label** 6
- **Description of goods:** 2810 TOXIC LIQUID, ORGANIC, N.O.S. (2,4-dichlorotoluene)

· **Maritime transport IMDG:**

- **IMDG Class:** 6.1
- **UN Number:** 2810
- **Label** 6
- **Packaging group:** III
- **EMS Number:** F-A,S-A
- **Marine pollutant:** No
- **Proper shipping name:** TOXIC LIQUID, ORGANIC, N.O.S. (2,4-dichlorotoluene)

· **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** 6.1
- **UN/ID Number:** 2810
- **Label** 6
- **Packaging group:** III

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· **Proper shipping name:** TOXIC LIQUID, ORGANIC, N.O.S. (2,4-dichlorotoluene)

15 Regulatory information

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**

Xn Harmful

· **Hazard-determining components of labelling:**

trichloroethylene
2,4-dichlorotoluene

· **Risk phrases:**

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
40 Limited evidence of a carcinogenic effect.
41 Risk of serious damage to eyes.
53 May cause long-term adverse effects in the aquatic environment.

· **Safety phrases:**

9 Keep container in a well-ventilated place.
23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28 After contact with skin, wash immediately with plenty of water.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

· **National regulations:**

· **Waterhazard class:** Water hazard class 3 (Self-assessment): extremely hazardous for water.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant R-phrases**

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
36/38 Irritating to eyes and skin.
45 May cause cancer.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
67 Vapours may cause drowsiness and dizziness.

· **Department issuing MSDS:** Safety Department

· * **Data compared to the previous version altered.**

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