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Environmental hazards : Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Additional Hazards : Not applicable

See section 11 for more detailed information on health effects and symptoms.

4. First aid measures

First aid measures

Inhalation : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.

Ingestion : If swallowed, do NOT induce vomiting. Never give anything by mouth to an unconscious person. Aspiration hazard if swallowed- can enter lungs and cause damage. Obtain medical attention.

Skin Contact : Wash with soap and water. Get medical attention if irritation develops.

Eye contact : In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Get medical attention if irritation occurs.

Notes to physician : Not available.

Specific treatments : Not available.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media : In case of fire, use water spray (fog), foam, dry chemical or CO₂ extinguisher or spray.

Special exposure hazards : Flammable liquid and vapour. Vapour may cause flash fire. Vapours may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : These products are carbon oxides (CO, CO₂).

Special protective equipment for fire-fighters : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal Precautions : Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Do not touch or walk through spilled material.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods for cleaning up : If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

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7. Handling and storage

- Handling** : Aspiration hazard if swallowed- can enter lungs and cause damage. Do not ingest. If ingested do not induce vomiting. Keep container closed. Use only with adequate ventilation. Keep away from heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Avoid contact of spilled material and runoff with soil and surface waterways. Wash thoroughly after handling.
- Storage** : Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).
- Packaging materials**
- Recommended** : Use original container.
- Specific uses** : Not available.

8. Exposure controls/personal protection

Exposure limit values :

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
<u>United Kingdom (UK)</u>	

Exposure controls

- Occupational exposure controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.
- Respiratory protection** : Wear appropriate respirator when ventilation is inadequate.
- Hand protection** : Gloves. neoprene or nitrile rubber (>0.5 mm) Permeation time >= 8 hours: (5 mm)
- Eye protection** : splash goggles
- Skin protection** : Work uniform or laboratory coat.

9. Physical and chemical properties

General information

- Appearance**
- Physical state** : Liquid.
- Colour** : Colourless.
- Odour** : White Spirit

Important health, safety and environmental information

- pH** : Not applicable.
- Melting point** : May start to solidify at <-20°C (-4°F) based on data for: Naphtha (petroleum), hydrodesulfurized heavy. Weighted average: -20.37°C (-4.7°F)
- Boiling point** : 177.5°C (351.5°F)
- Flash point** : Closed cup: 40°C (104°F). (Pensky-Martens.)
- Flammability (solid, gas)** : Not applicable.
- Explosive properties** : Not available.
- Explosion Limits** : The greatest known range is Lower: 1% Upper: 7% (Xylene)

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- Oxidising properties** : Not available.
- Relative density** : 0.806 g/cm³ (20°C / 68°F)
- Solubility** : Insoluble in cold water, hot water.
- Evaporation rate (butyl acetate = 1)** : 0.77 (Xylene) compared to Butyl acetate.

Other information

- Auto-ignition temperature** : 210°C (410°F)

10. Stability and reactivity

- Stability** : The product is stable.
- Conditions to Avoid** : Keep away from heat, sparks and flame. Stable under recommended storage and handling conditions (see section 7).
- Hazardous Decomposition Products** : These products are carbon oxides (CO, CO₂).

11. Toxicological information

Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : Aspiration hazard if swallowed- can enter lungs and cause damage.
- Skin Contact** : Slightly irritating to the skin.
- Eye contact** : Irritating to eyes.

Acute toxicity

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Naphtha (petroleum), hydrodesulfurized heavy	LD50	>5000 mg/kg	Oral	Rat
Solvent naphtha (petroleum), light arom.	LD50	>3000 mg/kg	Dermal	Rabbit
	LD50	>5000 mg/kg	Oral	Rat
	LD50	>2150 mg/kg	Oral	quail
	LD50	>3000 mg/kg	Dermal	Rabbit
	LC50	15 mg/l (4 hour (s))	Inhalation	Rat

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin** : No known significant effects or critical hazards.
- Other adverse effects** : Not available.

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12. Ecological information

Ecotoxicity data

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
Naphtha (petroleum), hydrodesulfurized heavy	Trout (LC50)	96 hour(s)	41.4 mg/l
	Shrimp (IC50)	96 hour(s)	4.3 mg/l
Solvent naphtha (petroleum), light arom.	Regenboogforel (LC50)	96 hour(s)	18 mg/l
	Water Organisms. (EC50)	48 hour(s)	21.3 mg/l

Other ecological information

Persistence/degradability

<u>Ingredient name</u>	<u>Aquatic half-life</u>	<u>Photolysis</u>	<u>Biodegradability</u>
Naphtha (petroleum), hydrodesulfurized heavy	-	-	Readily

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

Other adverse effects

13. Disposal considerations


Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Waste classification : 200113
: Not available.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste

14. Transport information

International transport regulations

<u>Regulatory information</u>	<u>UN number</u>	<u>Proper shipping name</u>	<u>Class</u>	<u>Packing group</u>	<u>Label</u>	<u>Additional Information</u>
ADR/RID Class	3295	UN 3295, "dangerous goods in limited quantities of class 3", III, ADR (Naphtha (petroleum), hydrodesulfurized heavy)	3	III		<p><u>Hazard identification number</u> 30</p> <p><u>Reportable quantity</u> 45</p> <p><u>Remarks</u> Limited quantity for upto 5 litre inner packing Else; UN 3295, HYDROCARBONS, LIQUID N.O.S., (White Spirit, mixture) class 3, III, ADR Keep in frostfree area</p>

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ADN Class	3295	UN 3295, "dangerous goods in limited quantities of class 3", III, ADNR (Naphtha (petroleum), hydrodesulfurized heavy)	3	III		RQ (Reportable quantity) ADN 45 Remarks Limited quantity for upto 5 litre inner packing Else; UN 3295, HYDROCARBONS, LIQUID N.O.S., (White Spirit, mixture) class 3, III, ADNR Keep in frostfree area
IMDG Class	3295	"dangerous goods in limited quantities of class 3" UN 3295, PG III (Naphtha (petroleum), hydrodesulfurized heavy). Marine pollutant (Naphtha (petroleum), hydrodesulfurized heavy, Naphta (petroleum) low boiling naphta unspecified)	3	III		Emergency schedules (EmS) F-E, S-E Marine pollutant Marine pollutant (P) Reportable quantity 30 Remarks Limited quantity for upto 5 litre inner packing Else; HYDROCARBONS, LIQUID N.O.S., (White Spirit, 85%, mixture) class 3, UN 3295, PG III Keep in frostfree area
IATA-DGR Class	3295	"dangerous goods in limited quantities of class 3" UN 3295, PG III (Naphtha (petroleum), hydrodesulfurized heavy)	3	III		Remarks Keep in frostfree area

15. Regulatory information

EU Regulations

Hazard symbol(s) :



Harmful, Dangerous for the environment.

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Risk Phrases	: R10- Flammable. R65- Harmful: may cause lung damage if swallowed. R66- Repeated exposure may cause skin dryness or cracking. R67- Vapours may cause drowsiness and dizziness. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrases	: S2- Keep out of the reach of children. S29/56- Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point. S43- In case of fire, use sand Powder. CO2. S46- If swallowed, seek medical advice immediately and show this container or label. S62- If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Other EU regulations	: Not available.
Product use	: Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including amendments and the intended use. - Consumer applications.

Other EU regulations

Child protection	: Yes, applicable.
Tactile warning of danger	: Yes, applicable.
EC Statistical classification (Tariff Code)	: 32089091
Ingredients identification information	: 30% and more: aliphatic hydrocarbons. less than 5%: aromatic hydrocarbons.

16. Other information

Full text of R phrases referred to in sections 2 and 3 - United Kingdom (UK)	: R10- Flammable. R65- Harmful: may cause lung damage if swallowed. R37- Irritating to respiratory system. R66- Repeated exposure may cause skin dryness or cracking. R67- Vapours may cause drowsiness and dizziness. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK)	: Xn - Harmful Xi - Irritant N - Dangerous for the environment.
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Verified by T. Rutgers.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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This safety data sheet is prepared in accordance with EU
directive 91/155/EC amended by Directive 2001/58/EC



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