SAFETY DATA SHEET
Redex Diesel System Cleaner

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

1.1. Product identifier

Product name Redex Diesel System Cleaner

Product number RADD0011B, RADD2701B, RADD0027A, RADD0019A, RADD0007A, RADD0015A, RADD1201A, RADD1601A, RADD1901A, RADD2201A, RADD2701A, RADD0011A, RADD0057A

Internal identification NQA2301

UFI UFI: HJC6-G0UR-H008-G502

REACH registration notes This is a MIXTURE; no registration information contained in this document . Holts are classed as Downstream User.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Fuel additive.

1.3. Details of the supplier of the safety data sheet

Supplier
Holt Lloyd International Ltd
Barton Dock Road
Stretford
Manchester
M32 0YQ - England, UK
+44 (0) 161 866 4800
FAX +44 (0) 161 866 4854
www.holtsauto.com

Contact person Contact Email address: info@holtsauto.com

1.4. Emergency telephone number

Emergency telephone UK - 00 44 (0) 161 866 4800 Office hrs = 0900 - 1700 hrs

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 3 - H226

Health hazards STOT SE 3 - H336 Asp. Tox. 1 - H304

Environmental hazards Aquatic Chronic 3 - H412

2.2. Label elements

Hazard pictograms

Signal word Danger

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Hazard statements	H226 Flammable liquid and vapour. H336 May cause drowsiness or dizziness. H304 May be fatal if swallowed and enters airways. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P501 Dispose of contents/ container in accordance with national regulations.
Supplemental label information	EUH066 Repeated exposure may cause skin dryness or cracking.
UFI	UFI: HJC6-G0UR-H008-G502
Contains	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics, Hydrocarbons, C10, aromatics, >1% naphthalene
Supplementary precautionary statements	P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P261 Avoid breathing vapour/ spray. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTRE/doctor if you feel unwell. P331 Do NOT induce vomiting. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics		**60-100%**
CAS number: —	EC number: 919-857-5	REACH registration number: 01-2119463258-33-XXXX
Classification Flam. Liq. 3 - H226 STOT SE 3 - H336 Asp. Tox. 1 - H304		

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Hydrocarbons, C10, aromatics, >1% naphthalene		1-5%
CAS number: 1189173-42-9	EC number: 919-284-0	REACH registration number: 01-2119463588-24-XXXX

Classification
STOT SE 3 - H336
Asp. Tox. 1 - H304
Aquatic Chronic 2 - H411

NAPHTHALENE		<1%
CAS number: 91-20-3	EC number: 202-049-5	REACH registration number: 01-2119561346-37-XXXX
M factor (Acute) = 1	M factor (Chronic) = 1	

Classification
Acute Tox. 4 - H302
Carc. 2 - H351
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

1,2,4-TRIMETHYLBENZENE		<1%
CAS number: 95-63-6	EC number: 202-436-9	REACH registration number: 01-2119472135-42-XXXX

Classification
Flam. Liq. 3 - H226
Acute Tox. 4 - H332
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
STOT SE 3 - H335
Aquatic Chronic 2 - H411

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Treat symptomatically.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention immediately. Place unconscious person on their side in the recovery position and ensure breathing can take place. Do not induce vomiting. Symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Show this Safety Data Sheet to the medical personnel.

Ingestion Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

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Eye contact Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 10 minutes. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

General information The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion May cause discomfort if swallowed.

Skin contact May be slightly irritating to skin. Prolonged skin contact may cause redness and irritation.

Eye contact May be slightly irritating to eyes. Prolonged contact may cause redness and/or tearing.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards In case of fire, toxic and corrosive gases may be formed. No unusual fire or explosion hazards noted.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen. Toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting No specific firefighting precautions known.

Special protective equipment for firefighters Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Avoid release to the environment. Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid breathing vapours. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep only in the original container. Keep away from food, drink and animal feeding stuffs. Store in a cool and well-ventilated place.

Storage class Flammable liquid storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Advisory OEL. CEFIC-HSPA : 1200 mg/m3

Hydrocarbons, C10, aromatics, >1% naphthalene

Long-term exposure limit (8-hour TWA): PT 500 ppm
Short-term exposure limit (15-minute): PT ppm 2000 mg/m³

NAPHTHALENE

Long-term exposure limit (8-hour TWA): WEL 10 ppm 53 mg/m³
Short-term exposure limit (15-minute): WEL 15 ppm 80 mg/m³

1,2,4-TRIMETHYLBENZENE

Long-term exposure limit (8-hour TWA): 25 ppm 125

WEL = Workplace Exposure Limit.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

DNEL
Industry - Dermal; Long term : 208 mg/kg/day
Industry - Inhalation; Long term : 871 mg/m³
Consumer - Dermal; Long term : 125 mg/kg/day
Consumer - Inhalation; Long term : 185 mg/m³
Consumer - Oral; Long term : 125 mg/l

Hydrocarbons, C10, aromatics, >1% naphthalene (CAS: 1189173-42-9)

DNEL
Workers - Inhalation; Long term systemic effects: 151 mg/m³
Workers - Dermal; Long term systemic effects: 12.5 mg/kg bw/day
General population - Inhalation; Long term systemic effects: 32 mg/m³
General population - Dermal; Long term systemic effects: 7.5 mg/kg bw/day
General population - Oral; Long term systemic effects: 7.5 mg/kg bw/day

NAPHTHALENE (CAS: 91-20-3)

DNEL
Workers - Inhalation; Long term systemic effects: 25 mg/m³
Workers - Inhalation; Long term local effects: 25 mg/m³
Workers - Dermal; Long term systemic effects: 3.57 mg/kg bw/day

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PNEC

Fresh water; Long term 2.4 µg/l
marine water; Long term 2.4 µg/l
STP; Long term 2.9 mg/l
Sediment (Freshwater); Long term 67.2 µg/kg sediment dw
Sediment (Marinewater); Long term 67.2 µg/kg sediment dw
Soil; Long term 53.3 µg/kg soil dw

1,2,4-TRIMETHYLBENZENE (CAS: 95-63-6)

DNEL

Workers - Inhalation; Long term systemic effects: 100 mg/m³
Workers - Inhalation; Short term systemic effects: 100 mg/m³
Workers - Inhalation; Long term local effects: 100 mg/m³
Workers - Dermal; Long term systemic effects: 16171 mg/kg bw/day
General population - Inhalation; Long term systemic effects: 29.4 mg/m³
General population - Inhalation; Short term systemic effects: 29.4 mg/m³
General population - Inhalation; Long term local effects: 29.4 mg/m³
General population - Inhalation; Short term local effects: 29.4 mg/m³
General population - Dermal; Long term systemic effects: 9512 mg/kg bw/day
General population - Oral; Long term systemic effects: 15 mg/kg bw/day

PNEC

Fresh water; 0.12 mg/l
marine water; 0.12 mg/l
STP; 2.41 mg/l
Sediment (Freshwater); 13.56 mg/kg sediment dw
Soil; 2.34 mg/kg soil dw

Phenol, dodecyl-, branched (CAS: 210555-94-5)

DNEL

Workers - Inhalation; Long term systemic effects: 1.762 mg/m³
Workers - Inhalation; Short term systemic effects: 44.18 mg/m³
Workers - Dermal; Long term systemic effects: 0.25 mg/kg bw/day
Workers - Dermal; Short term systemic effects: 166 mg/kg bw/day
General population - Inhalation; Long term systemic effects: 0.79 mg/m³
General population - Inhalation; Short term systemic effects: 13.26 mg/m³
General population - Dermal; Long term systemic effects: 0.075 mg/kg bw/day
General population - Dermal; Short term systemic effects: 50 mg/kg bw/day
General population - Oral; Long term systemic effects: 0.075 mg/kg bw/day
General population - Oral; Short term systemic effects: 1.26 mg/kg bw/day

PNEC

Fresh water; 0.074 µg/l
Intermittent release; 0.37 µg/l
marine water; 0.007 µg/l
STP; 100 mg/l
Sediment (Freshwater); 0.226 mg/kg/day, mg/kg sediment dw
Sediment (Marinewater); 0.027 mg/kg sediment dw
Soil; 0.118 mg/kg soil dw

Ethylenediamine (CAS: 107-15-3)

DNEL

Workers - Inhalation; Long term systemic effects: 25 mg/m³
Workers - Dermal; Long term systemic effects: 3.6 mg/kg bw/day
General population - Inhalation; Long term systemic effects: 12.5 mg/m³
General population - Oral; Long term systemic effects: 0.275 mg/kg bw/day

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PNEC	Fresh water; 0.016 mg/l marine water; 0.002 mg/l STP; 0.5 mg/l Sediment (Freshwater); 7.68 mg/kg sediment dw Sediment (Marinewater); 0.768 mg/kg sediment dw Soil; 4.36 mg/kg soil dw

8.2. Exposure controls

Protective equipment

Appropriate engineering controls	No specific ventilation requirements.
Eye/face protection	Wear chemical splash goggles.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, gloves should comply with European Standard EN374.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene measures	Good personal hygiene procedures should be implemented.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Coloured liquid.
Colour	Black.
Odour	Aromatic hydrocarbons.
Initial boiling point and range	130°C @ 760 mm Hg
Flash point	~ 37 - 38°C Closed cup.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 0.6 g/100 g Upper flammable/explosive limit: 7 g/100 g
Vapour pressure	300 - 600 Pa @ 20°C
Relative density	0.77 @ 20°C
Solubility(ies)	Immiscible with water.
Viscosity	Kinematic viscosity ≤ 20.5 mm^2/s.

9.2. Other information

Volatile organic compound	This product contains a maximum VOC content of 98 %.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.

10.2. Chemical stability

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Stability Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not applicable. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid heat. Avoid freezing.

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No information available.

Acute toxicity - oral

Notes (oral LD_{50}) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD_{50}) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC_{50}) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Genotoxicity - in vivo Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Central and/or peripheral nervous system damage.

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Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard	May be fatal if swallowed and enters airways.

Toxicological information on ingredients.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,000.0
Species	Rat
Notes (oral LD_{50})	LD_{50} > 5000 mg/kg, Oral, Rat
ATE oral (mg/kg)	5,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	5,000.0
Species	Rat
ATE dermal (mg/kg)	5,000.0

Acute toxicity - inhalation

Species	Rat
Notes (inhalation LC_{50})	LC50 > 5000 mg/m³, Inhalation, Rat

Skin corrosion/irritation

Skin corrosion/irritation	Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation	Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation	No information available.

Skin sensitisation

Skin sensitisation	Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro	Negative.
Genotoxicity - in vivo	Negative.

Carcinogenicity

Carcinogenicity	There is no evidence that the product can cause cancer.

Reproductive toxicity

Reproductive toxicity - fertility	One-generation study - NOAEL >/= 3000 mg/kg bw/day, Oral, Rat P

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Reproductive toxicity - development	Developmental toxicity: - NOAEC: >/= 300 ppm, Inhalation, Rat

Specific target organ toxicity - single exposure

STOT - single exposure	Central and/or peripheral nervous system damage.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard	May be fatal if swallowed and enters airways.

Hydrocarbons, C10, aromatics, >1% naphthalene

Acute toxicity - oral

Notes (oral LD_{50})	LD_{50} 6318 ml/kg, Oral, Rat

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	2,000.0
Species	Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)	590,000.0
Species	Rat

Skin corrosion/irritation

Skin corrosion/irritation	Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation	Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation	No information available.

Skin sensitisation

Skin sensitisation	Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro	Negative with metabolic activation. Negative without metabolic activation.
Genotoxicity - in vivo	Negative.

Carcinogenicity

Carcinogenicity	Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility	Three-generation study - NOAEL > 1500 (C9 aromatic hydrocarbons) ppm, Inhalation, Rat F3 Two-generation study - NOAEL >/= 300 (C10 aromatic hydrocarbons) mg/kg/day, Oral, Rat F1
Reproductive toxicity - development	Maternal toxicity: - NOAEL: 150 mg/kg/day, Oral, Rat Developmental toxicity: - NOAEL: > 450 mg/kg/day, Oral, Rat

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Specific target organ toxicity - single exposure

STOT - single exposure Central and/or peripheral nervous system damage.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

Ecological information on ingredients.

Hydrocarbons, C10, aromatics, >1% naphthalene

Ecotoxicity Toxic to aquatic life with long lasting effects.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish No information available.

Acute toxicity - aquatic invertebrates Not available.

Acute toxicity - aquatic plants Not available.

Acute toxicity - microorganisms Not available.

Acute toxicity - terrestrial Not available.

Chronic aquatic toxicity

Chronic toxicity - fish early life stage Not available.

Short term toxicity - embryo and sac fry stages Not available.

Chronic toxicity - aquatic invertebrates Not available.

Ecological information on ingredients.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Acute aquatic toxicity

Acute toxicity - fish LC_{50}, 96 hours: > 1000 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC_{50}, 48 hours: > 1000 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC_{50}, 72 hours: > 1000 mg/l, Pseudokirchneriella subcapitata

Acute toxicity - microorganisms EL50, 48 hours: 0.95 mg/l, Tetrahymena pyriformis, QSAR

Hydrocarbons, C10, aromatics, >1% naphthalene

Acute aquatic toxicity

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Acute toxicity - fish	LC_{50}, 96 hours: 2-5 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 3-10 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hours: 1-3 mg/l, Pseudokirchneriella subcapitata
Chronic aquatic toxicity	
Chronic toxicity - fish early life stage	NOELR, 28 days: 0.487 mg/l, QSAR
Chronic toxicity - aquatic invertebrates	NOELR, 21 days: 0.851 mg/l, QSAR

12.2. Persistence and degradability

Persistence and degradability The product is biodegradable.

Ecological information on ingredients.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Persistence and degradability	Rapidly degradable

Hydrocarbons, C10, aromatics, >1% naphthalene

Biodegradation	Inherently biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Ecological information on ingredients.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Bioaccumulative potential	The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility The product contains substances which are water-soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Results of PBT and vPvB assessment	This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	1993
UN No. (IMDG)	1993
UN No. (ICAO)	1993
UN No. (ADN)	1993

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	FLAMMABLE LIQUID, N.O.S. (CONTAINS Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics, 1,2,4-TRIMETHYLBENZENE)
Proper shipping name (IMDG)	FLAMMABLE LIQUID, N.O.S. (CONTAINS Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics, 1,2,4-TRIMETHYLBENZENE)
Proper shipping name (ICAO)	FLAMMABLE LIQUID, N.O.S. (CONTAINS Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics, 1,2,4-TRIMETHYLBENZENE)
Proper shipping name (ADN)	FLAMMABLE LIQUID, N.O.S. (CONTAINS Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics, 1,2,4-TRIMETHYLBENZENE)

14.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

Transport labels

14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS	F-E, S-E

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ADR transport category	3
Emergency Action Code	•3Y
Hazard Identification Number (ADR/RID)	30
Tunnel restriction code	(D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

SECTION 15: Regulatory information

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

National regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015.
Authorisations (Annex XIV Regulation 1907/2006)	No specific authorisations are known for this product.
Restrictions (Annex XVII Regulation 1907/2006)	No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

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Abbreviations and acronyms used in the safety data sheet

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE: Acute Toxicity Estimate.
CAS: Chemical Abstracts Service.
DNEL: Derived No Effect Level.
EC_{50}: 50% of maximal Effective Concentration.
GHS: Globally Harmonized System.
IARC: International Agency for Research on Cancer.
IATA: International Air Transport Association.
ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
Kow: Octanol-water partition coefficient.
LC_{50}: Lethal Concentration to 50 % of a test population.
LD_{50}: Lethal Dose to 50% of a test population (Median Lethal Dose).
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
NOEC: No Observed Effect Concentration.
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
SVHC: Substances of Very High Concern.
UVCB - Unknown or variable composition, complex reaction products or Biological materials.
vPvB: Very Persistent and Very Bioaccumulative.

Revision date 05/01/2021

Revision 3

Supersedes date 28/05/2019

SDS number 21095

Hazard statements in full

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.