

Safety Data Sheet (SDS)

According to Regulation (EC) No 1907/2006 (REACH) and Commission Regulation (EU) No. 830/2015

Trade name 

Version: SDS/RPO/01/JULY/2017

Creation date: 01/07/2017

Revision date: NIL

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

1.1 Product identifier

Substance name: Rubber Processing Oils
Synonyms: Petroleum Extract (Highly refined base oils)
Trade name: VELVEX PROCESS OIL PR 32, PR 95, PR 230 and PR 330
EC Name: Lubricating Oil
EC No.: 278-012-2
CAS No.: 74869-22-0
Index No: Not Available
REACH Registration No: No registration number is given yet for this pre-registered phase-in substance since the transition period for its registration according to Article 23 of REACH has not yet expired.
Substance Identify: UVCB

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

1.2.1 Relevant Identified Uses

Lubricating oil, Rubber processing oil

1.2.2 Uses Advised Against

No information available

1.2.3 Reason why uses advised against

No information available

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Nandan Petrochem Limited, (Appointed REACH Law Ltd, Finland as Only Representative)
Address: B-601, Lotus Corporate Park, Ram Mandir Lane, Jay coach Junction, Western Express Highway, Goregaon East, Mumbai -400063
Country: India
Telephone number: 91-22-42577200, 02232031075,
E-mail address: info@nandangroup.com | exports@nandangroup.com

1.4 Emergency telephone number

Emergency telephone number: 91-22-42577200
Service is provided in the following language: English

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 According to Regulation (EC) No 1272/2008(CLP)

Aspiration Hazard Category 1

2.1.2 Additional information: For full text of Hazard and Precautionary statements: see SECTION 16.

2.2 Label elements

According to Regulation (EC) No1272/2008(CLP)

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Hazard Pictogram:



Signal Word: Danger

Hazard Statements:

H304: May be fatal if swallowed and enters airways.

Precautionary Statements:

Precautionary statements - general

P301+P310: if swallowed immediately call a poison centre/doctor.

P331: do not induce vomiting.

P102: Keep out of reach of children.

Precautionary statements - storage

P405: Store locked up.

Precautionary statements – disposal

P501: Dispose of contents/container to authorized chemical landfill or if organic to high temperature incineration.

2.3. Other hazards

Results of PBT/vPvB assessment: the substance is not PBT / vPvB.

Other hazards: There is no additional information.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical Name	CAS No.	EC No.	Index No. in CLP Annex VI	REACH Registration No	% Weight Content (range)	Classification according to Regulation (EC) No 1272/2008 (CLP).
PETROLEUM EXTRACT	74869-22-0	278-012-2	Not Available	No registration number is given yet for this pre-registered phase-in substance since the transition period for its registration according to Article 23 of REACH has not yet expired	0 to 100%	Hazard Category 1, H304
Additional information: For full text of H-statements: see SECTION 16.						

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SECTION 4: First aid measures

4.1. Description of first aid measures

General notes

Spillages make surfaces slippery.

Following inhalation

If fumes, aerosol or combustion products are inhaled remove from contaminated area.

Other measures are usually unnecessary

Following skin contact

Remove contaminated clothing and footwear, and dispose of safely. Seek medical attention if skin irritation, swelling or redness develops and persists.

Following contact with eyes

Wash out immediately with water.

If irritation continues, seek medical attention.

Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Following ingestion

Immediately give a glass of water.

Do not give anything by mouth to an unconscious person.

Do not induce vomiting as there is a risk of aspiration. Call a doctor immediately.

Note to Physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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

Irritation, Nausea, Vomiting

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

None.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry chemical powder, foam, Carbon dioxide (CO₂), Water fog.

Unsuitable extinguishing media

Does not use direct water jets on the burning product; they could cause splattering and spread the fire.

Additional information

Recommended measures are based on the most likely spillage scenarios for this material.

However, local conditions (wind, air temperature, wave/current direction and speed) may significantly influence the choice of appropriate actions.

Local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken.

Specific hazards

Fire incompatibility: Avoid contamination with oxidizing agents i.e. nitrates, oxidizing acids, chlorine acids, chlorine bleaches, pool chlorine etc. as ignition may results.

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Revision date: NIL

Special protective equipment

Goggles or face shield, if splashes or contact with eyes is possible or anticipated.

Further information

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates and gases, including carbon monoxide and unidentified organic and inorganic compounds.

5.3. Advice for fire-fighters

Alert Fire Brigade and tell them location and nature of hazard.
Wear full body protective clothing with breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Work gloves providing adequate chemical resistance, specifically to hydrocarbons.

Wear approved respiratory protection such as toxic dust, mist and fume respirator.

Safety glasses, chemical type goggles, or face shield appropriate where splashing or misting is expected during routine operations.

Environmental precautions

Use adequate ventilation to keep the airborne concentrations of this material below the ACGIH TLV for mineral oil mists. Local exhaust ventilation and/or enclosure of the processes is preferred in these cases.

Methods for cleaning up or taking up

Remove all ignition sources. Control personal contact with the substance, by using protective equipment.

Contain and absorb spill with sand, earth, inert material or vermiculite. Place in a suitable, labelled container for waste disposal.

6.2. Environmental precautions

Prevent product from entering sewers, rivers, waterways or other bodies of water.

6.3. Methods and material for containment and cleaning up

6.3.1 For containment

Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes

6.3.2 For cleaning up

Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations.

6.3.3 Other information

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Empty containers may contain combustible product residues. Do not weld, solder, drill, cut or perform similar operations unless they have been properly cleaned.

6.4. Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8.

Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

7.1.1 Protective measures

Contaminated materials should not be allowed to accumulate in the workplaces and should never be kept inside the pockets. Keep away from food and beverages.

Do not eat, drink or smoke while using this product.

Wash the hands thoroughly after handling.

Change contaminated clothes at the end of working shift.

Protection against fire and explosion

For fires involving this material, do not enter any enclosed or confined space without self-contained breathing apparatus to protect against the hazardous effects of combustion products or oxygen deficiency.

Measure to protect the environment

No particular measures.

7.1.2 Information on general occupational hygiene

Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Incompatible substances or mixtures

Avoid reaction with oxidizing agents.

Consideration of other advice: Suitable materials for containers

For containers, or container linings use mild steel, stainless steel.

Ventilation Requirements

Use local and general ventilation

Specific designs for storage rooms or vessels

Recommended storage temperature:

7.3. Specific end use(s)

No information available.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	Notation	Identifier	TWA [mg/m ³]	STEL [mg/m ³]	Source
Germany (AGS)	mineral oil mists	i	ACGIH TLV	5 mg/m ³ 8 hours	20 mg/m ³ Short term	http://limitvalue.ifa.dguv.de/WebForm_ueliste2.aspx

i Inhalable fraction

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours' time-weighted average

AGS (1) Respirable fraction (2) 15 minutes average value

Relevant DNELs/DMELs/PNECs and other threshold levels

8.2. Exposure controls

Personal protection equipment

Eye /face protection



Safety glasses, chemical type goggles, or face shield appropriate where splashing or misting is expected during routine operations or spill clean-up.

Skin protection



Wear general protective gloves, e.g. light weight rubber gloves

Hand protection:

Exposed employees should exercise reasonable personal cleanliness; this includes cleansing exposed skin several times daily with soap and water and laundering or dry cleaning soiled work clothing at least daily.

Other skin protection:

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection



if operating conditions create airborne concentrations which exceed the recommended exposure standard(s), the use of an approved respirator is recommended. Wear approved respiratory protection such as toxic dust, mist and fume respirator

Thermal hazards

Not applicable.

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Environmental exposure controls

This material may present environmental risks common to oil spills

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

(a) Appearance:	Physical state - liquid, Colour – ASTM D 1500 - Max 2.5
(b) Odour:	Odourless
(c) Odour threshold:	Not applicable
(d) pH:	Not applicable
(e) Melting point/freezing point:	Not Applicable
(f) Initial boiling point and boiling range:	Not Applicable
(g) Flash point:	>200°C, ASTM D 92
(h) Evaporation rate:	<1 (n-butyl acetate = 1)
(i) Flammability (solid, gas):	Not applicable
(j) Upper/lower flammability or explosive limits:	No data available
(k) Vapour pressure:	<0.013 kPa
(l) Vapour density:	-
(m) Relative density:	-
(n) Solubility(ies) in water:	Negligible
(o) Partition coefficient: n-octanol/water:	-
(p) Auto-ignition temperature:	-
(q) Decomposition temperature:	-
(r) Viscosity:	< 28.0, mm ² /s at 40°C
(s) Explosive properties:	not classified as explosive
(t) Oxidising properties:	None
(u) Density (kg/l at 25 °C)	0.8 to 0.88

9.2. Other information

Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable

10.2. Chemical stability

Product is considered stable and hazardous polymerisation will not occur.

10.3. Possibility of hazardous reactions

Avoid temperatures exceeding the flash point.

10.4. Conditions to avoid

No specific data.

10.5. Incompatible materials

No specific data.

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10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

Shall not be classified as acutely toxic.

Exposure route	End point	Value	Species	Source
Oral	LD50	>5000 mg/kg bw	Rat	ECHA
Inhalation	LC50	>5000 mg/kg (4h)	Rat	ECHA
Dermal	LD50	>2000 mg/kg bw	Rabbit	ECHA

Skin corrosion/irritation

Shall not be classified as a corrosive/irritant to skin

Serious eye damage/eye irritation

Shall not be classified as irritation on eye contact.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitizer.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant

Specific target organ toxicity/STOT (single exposure)

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity/STOT (repeated exposure)

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)

End point	Value	Species	Exposure time
LL50	≥ 10,000 mg/L	Leuciscus idus melanotus	96-hour
LC50	>100 mg/L	Daphnia magna	48 h
EC25	≤ 100 mg/L	Pseudokirchneriella subcapitata	72 h

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12.2. Persistence and degradability

Process	Degradation rate	Time
Biotic/abiotic	No data available for all ingredients	

12.3. Bio accumulative potential

Partition coefficient n-octanol /water (log Kow)	No data available for all ingredients
Bio-concentration factor (BCF)	No data available for all ingredients

12.4. Mobility in soil

Known or predicted distribution to environmental compartments	No data available
Surface tension	No data available
Adsorption/Desorption	No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available.

12.6. Additional information

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment-relevant information
Place contained materials in disposable containers and dispose of in a manner consistent with applicable regulations.
Contact local environmental or health authorities for approved disposal of this material.

Sewage disposal-relevant information
Prevent product from entering sewers, rivers, waterways or other bodies of water

Other disposal recommendations
This material may present environmental risks common to oil spills. Contact your local oil spill response group and applicable government agencies if a spill occurs

SECTION 14: Transport information (In accordance with ADR / RID / IMDG / IATA / ADN)

14.1. UN number

UN-No. (ADR)	Void
UN-No. (IATA)	Void
UN-No. (IMDG)	Void
UN-No. (ADN)	Void

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14.2. UN proper shipping name

Proper Shipping Name (ADR)	Void
Proper Shipping Name (IATA)	Void
Proper Shipping Name (IMDG)	Void
Proper Shipping Name (ADN)	Void
Transport document description (ADR)	Void

14.3. Transport hazard class(es)

Class (ADR)	Void
Classification code (ADR)	Void
Class (IATA)	Void
Class (IMDG)	Void
Class (ADN)	Void
Classification code (ADN)	Void

14.4. Packing group

Packing group (ADR)	Void
Packing group (IATA)	Void
Packing group (IMDG)	Void
Packing group (ADN)	Void

14.5. Environmental hazards

None (non-environmentally hazardous acc. to the dangerous goods regulations).

14.6. Special precautions for user

Overland transport	
Hazard identification number (Kemler No.)	Not applicable
Classification code (ADR)	Not applicable
Tunnel restriction code (ADR)	Not applicable
EAC code	Not applicable

Transport by sea	
EmS-No. (Fire)	Not applicable
EmS-No. (Spillage)	Not applicable
Stowage category (IMDG)	Not applicable
Inland waterway transport	
Carriage prohibited (ADN)	Not applicable

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

The cargo is not intended to be carried in bulk

SECTION 15: Regulatory information

In the absence of local approval authorities/standard regulations.

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

EU regulations	
Authorisations and/or restrictions on use	Not listed
Authorisations	Not listed
Restrictions on use	Not listed
SVHC	Not listed

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

The latest version of Annex II of REACH (i.e. the Annex of Regulation (EU) 2015/830)

16.1 Indication of changes

Version: 1.1

16.2 Abbreviations and acronyms

ADR/RID	European Agreements on the transport of Dangerous goods by Road/Railway
CAS	Chemical Abstracts Service
CLP	Classification, labelling and packaging (Regulation (EC) No1272/2008)
DNEL	Derived no-effect level
EC50	Half maximal effective concentration
ECHA	European Chemicals Agency
EINECS	European Inventory of Existing Commercial chemical Substances
IATA	International Air Transport Association
IMDG	International agreement on the Maritime transport of Dangerous Goods
LC50	Median lethal dose
OEL	Occupational exposure limit
OELV	Occupational exposure limit value
WEL	workplace exposure limit
PBT	Persistent, bio-accumulative and toxic
PNEC	Predicted no-effect concentration
REACH	Registration, Evaluation and Authorisation of Chemicals
SDS	Safety Data Sheet
STOT	Specific target organ toxicity
TLV-TWA	Threshold Limit Value-Time-Weighted Average
TRGS	Technische Regeln für Gefahrstoffe
UVCB	Substances of Unknown or Variable composition, Complex reaction products or Biological materials
vPvB	Very persistent, very bio-accumulative
w/w	Weight by weight
EH40/2005EH40/2005	Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
RID	Regulations concerning the International carriage of Dangerous goods by Rail

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Revision date: NIL

16.3 Key literature references and sources of data

- (1) *GESTIS International Limit values Database* via <http://www.dguv.de/ifa/Gefahrstoffdatenbanken/GESTIS-Internationale-Grenzwerte/C3%BCr-chemische-Substanzen-limit-values-for-chemical-agents/index-2.jsp>.
- (2) *GESTIS DNEL Database*
- (3) The ECHA database on registered substances: (<http://apps.echa.europa.eu/registered/registered-sub.aspx>)
- (4) The ECHA classification and labelling inventory: http://echa.europa.eu/clp/c l inventory_en.asp
- (5) Toxnet is the United States of America's National Library of Medicine's toxicology data network. It gives access to databases on toxicology, hazardous chemicals, environmental health, and toxic releases.
- (6) eChemPortal (http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en) The eChemPortal is an effort of the Organisation for Economic Co-operation and Development (OECD) in collaboration with the European Commission (EC), the European Chemicals Agency (ECHA)
- (7) <https://pubchem.ncbi.nlm.nih.gov/compound/edta#section=Chemical-Vendors>

16.4 Relevant H-statements (number and full text)

Code: H304

Text: May be fatal if swallowed and enters airways.

Disclaimer

Information contained in this SDS is believed to be reliable but no representation guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. The user of this material should decide what safety measures are necessary to safely use this material either alone or in combination with other materials. Nandan Petrochem Limited Ltd, makes no warranties expressed or implied in respect of the adequacy of this document for any particular purpose.

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Trade name 

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Creation date: 01/07/2017

Revision date: NIL

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

1.1 Product identifier

Substance name: Rubber Processing Oils
Synonyms: Residual oils (petroleum), solvent-dewaxed
Trade name: VELVEX PROCESS OIL PR 410 and PR 430
EC Name: Residual oils (petroleum), solvent-dewaxed
EC No.: 265-166-0
CAS No.: 64742-62-7
Index No: Not Available
REACH Registration No: No registration number is given yet for this pre-registered phase-in substance since the transition period for its registration according to Article 23 of REACH has not yet expired.
Substance Identify: UVCB

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

1.2.1 Relevant Identified Uses

Lubricating oil, Rubber processing oil

1.2.2 Uses Advised Against

No information available

1.2.3 Reason why uses advised against

No information available

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Nandan Petrochem Limited, (Appointed REACH Law Ltd, Finland as Only Representative)
Address: B-601, Lotus Corporate Park, Ram Mandir Lane, Jay coach Junction, Western Express Highway, Goregaon East, Mumbai -400063
Country: India
Telephone number: 91-22-42577200, 02232031075,
E-mail address: info@nandangroup.com | exports@nandangroup.com

1.4 Emergency telephone number

Emergency telephone number: 91-22-42577200
Service is provided in the following language: English

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 According to Regulation (EC) No 1272/2008(CLP)

Aspiration Hazard Category 1

2.1.2 Additional information: For full text of Hazard and Precautionary statements: see SECTION 16.

2.2 Label elements

According to Regulation (EC) No1272/2008(CLP)

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Hazard Pictogram:



Signal Word: Danger

Hazard Statements:

H304: May be fatal if swallowed and enters airways.

Precautionary Statements:

Precautionary statements - general

P301+P310: if swallowed immediately call a poison centre/doctor.

P331: do not induce vomiting.

P102: Keep out of reach of children.

Precautionary statements -storage

P405: Store locked up.

Precautionary statements – disposal

P501: Dispose of contents/container to authorized chemical landfill or if organic to high temperature incineration.

2.3. Other hazards

Results of PBT/vPvB assessment: the substance is not PBT / vPvB.

Other hazards: There is no additional information.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical Name	CAS No.	EC No.	Index No. in CLP Annex VI	REACH Registration No	% Weight Content (range)	Classification according to Regulation (EC) No 1272/2008 (CLP).
Residual oils (petroleum), solvent-dewaxed	64742-62-7	265-166-0	Not Available	No registration number is given yet for this pre-registered phase-in substance since the transition period for its registration according to Article 23 of REACH has not yet expired	0 to 100%	Hazard Category 1, H304
Additional information: For full text of H-statements: see SECTION 16.						

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SECTION 4: First aid measures

4.1. Description of first aid measures

General notes

Spillages make surfaces slippery.

Following inhalation

If fumes, aerosol or combustion products are inhaled remove from contaminated area.

Other measures are usually unnecessary

Following skin contact

Remove contaminated clothing and footwear, and dispose of safely. Seek medical attention if skin irritation, swelling or redness develops and persists.

Following contact with eyes

Wash out immediately with water.

If irritation continues, seek medical attention.

Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Following ingestion

Immediately give a glass of water.

Do not give anything by mouth to an unconscious person.

Do not induce vomiting as there is a risk of aspiration. Call a doctor immediately.

Note to Physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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

Irritation, Nausea, Vomiting

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

None.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry chemical powder, foam, Carbon dioxide (CO₂), Water fog.

Unsuitable extinguishing media

Does not use direct water jets on the burning product; they could cause splattering and spread the fire.

Additional information

Recommended measures are based on the most likely spillage scenarios for this material.

However, local conditions (wind, air temperature, wave/current direction and speed) may significantly influence the choice of appropriate actions.

Local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken.

Specific hazards

Fire incompatibility: Avoid contamination with oxidizing agents i.e. nitrates, oxidizing acids, chlorine acids, chlorine bleaches, pool chlorine etc. as ignition may result.

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Special protective equipment

Goggles or face shield, if splashes or contact with eyes is possible or anticipated.

Further information

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates and gases, including carbon monoxide and unidentified organic and inorganic compounds.

5.3. Advice for fire-fighters

Alert Fire Brigade and tell them location and nature of hazard.
Wear full body protective clothing with breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Work gloves providing adequate chemical resistance, specifically to hydrocarbons.
Wear approved respiratory protection such as toxic dust, mist and fume respirator.
Safety glasses, chemical type goggles, or face shield appropriate where splashing or misting is expected during routine operations.

Environmental precautions

Use adequate ventilation to keep the airborne concentrations of this material below the ACGIH TLV for mineral oil mists. Local exhaust ventilation and/or enclosure of the processes is preferred in these cases.

Methods for cleaning up or taking up

Remove all ignition sources. Control personal contact with the substance, by using protective equipment.
Contain and absorb spill with sand, earth, inert material or vermiculite. Place in a suitable, labelled container for waste disposal.

6.2. Environmental precautions

Prevent product from entering sewers, rivers, waterways or other bodies of water.

6.3. Methods and material for containment and cleaning up

6.3.1 For containment

Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes

6.3.2 For cleaning up

Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations.

6.3.3 Other information

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Revision date: NIL

Empty containers may contain combustible product residues. Do not weld, solder, drill, cut or perform similar operations unless they have been properly cleaned.

6.4. Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8.

Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

7.1.1 Protective measures

Contaminated materials should not be allowed to accumulate in the workplaces and should never be kept inside the pockets. Keep away from food and beverages.

Do not eat, drink or smoke while using this product.

Wash the hands thoroughly after handling.

Change contaminated clothes at the end of working shift.

Protection against fire and explosion

For fires involving this material, do not enter any enclosed or confined space without self-contained breathing apparatus to protect against the hazardous effects of combustion products or oxygen deficiency.

Measure to protect the environment

No particular measures.

7.1.2 Information on general occupational hygiene

Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Incompatible substances or mixtures

Avoid reaction with oxidizing agents.

Consideration of other advice: Suitable materials for containers

For containers, or container linings use mild steel, stainless steel.

Ventilation Requirements

Use local and general ventilation

Specific designs for storage rooms or vessels

Recommended storage temperature:

7.3. Specific end use(s)

No information available.

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Revision date: NIL

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	Notation	Identifier	TWA [mg/m ³]	STEL [mg/m ³]	Source
Germany (AGS)	mineral oil mists	i	ACGIH TLV	5 mg/m ³ 8 hours	20 mg/m ³ Short term	http://limitvalue.ifa.dguv.de/WebForm_ueliste2.aspx

i Inhalable fraction

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours' time-weighted average

AGS (1) Respirable fraction (2) 15 minutes average value

Relevant DNELs/DMELs/PNECs and other threshold levels

8.2. Exposure controls

Personal protection equipment

Eye /face protection



Safety glasses, chemical type goggles, or face shield appropriate where splashing or misting is expected during routine operations or spill clean-up.

Skin protection



Wear general protective gloves, e.g. light weight rubber gloves

Hand protection:

Exposed employees should exercise reasonable personal cleanliness; this includes cleansing exposed skin several times daily with soap and water and laundering or dry cleaning soiled work clothing at least daily.

Other skin protection:

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection



if operating conditions create airborne concentrations which exceed the recommended exposure standard(s), the use of an approved respirator is recommended. Wear approved respiratory protection such as toxic dust, mist and fume respirator

Thermal hazards

Not applicable.

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Environmental exposure controls

This material may present environmental risks common to oil spills

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

(a) Appearance:	Physical state - liquid, Colour – Dark Brown
(b) Odour:	Odourless
(c) Odour threshold:	Not applicable
(d) pH:	Not applicable
(e) Melting point/freezing point:	Not Applicable
(f) Initial boiling point and boiling range:	Not Applicable
(g) Flash point:	>250°C, ASTM D 92
(h) Evaporation rate:	<1 (n-butyl acetate = 1)
(i) Flammability (solid, gas):	Not applicable
(j) Upper/lower flammability or explosive limits:	No data available
(k) Vapour pressure:	<0.013 kPa
(l) Vapour density:	-
(m) Relative density:	-
(n) Solubility(ies) in water:	Negligible
(o) Partition coefficient: n-octanol/water:	-
(p) Auto-ignition temperature:	-
(q) Decomposition temperature:	-
(r) Viscosity:	340 Min., mm ² /s at 40°C
(s) Explosive properties:	not classified as explosive
(t) Oxidising properties:	None
(u) Density (kg/l at 25 °C)	0.85 to 0.95

9.2. Other information

Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable

10.2. Chemical stability

Product is considered stable and hazardous polymerisation will not occur.

10.3. Possibility of hazardous reactions

Avoid temperatures exceeding the flash point.

10.4. Conditions to avoid

No specific data.

10.5. Incompatible materials

No specific data.

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Revision date: NIL

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

Shall not be classified as acutely toxic.

Exposure route	End point	Value	Species	Source
oral	LD50	>5000 mg/kg bw	Rat	ECHA
Inhalation	LC50	>5000 mg/kg (4h)	Rat	ECHA
Dermal	LD50	>2000 mg/kg bw	Rabbit	ECHA

Skin corrosion/irritation

Shall not be classified as a corrosive/irritant to skin

Serious eye damage/eye irritation

Shall not be classified as irritation on eye contact.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitizer.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant

Specific target organ toxicity/STOT (single exposure)

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity/STOT (repeated exposure)

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)

End point	Value	Species	Exposure time
LL50	≥ 10,000 mg/L	Leuciscus idus melanotus	96-hour
LC50	>100 mg/L	Daphnia magna	48 h
EC25	≤ 100 mg/L	Pseudokirchneriella subcapitata	72 h

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12.2. Persistence and degradability

Process	Degradation rate	Time
Biotic/abiotic	No data available for all ingredients	

12.3. Bio accumulative potential

Partition coefficient n-octanol /water (log Kow)	No data available for all ingredients
Bio-concentration factor (BCF)	No data available for all ingredients

12.4. Mobility in soil

Known or predicted distribution to environmental compartments	No data available
Surface tension	No data available
Adsorption/Desorption	No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available.

12.6. Additional information

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment-relevant information
Place contained materials in disposable containers and dispose of in a manner consistent with applicable regulations.
Contact local environmental or health authorities for approved disposal of this material.

Sewage disposal-relevant information
Prevent product from entering sewers, rivers, waterways or other bodies of water

Other disposal recommendations
This material may present environmental risks common to oil spills. Contact your local oil spill response group and applicable government agencies if a spill occurs

SECTION 14: Transport information (In accordance with ADR / RID / IMDG / IATA / ADN)

14.1. UN number

UN-No. (ADR)	Void
UN-No. (IATA)	Void
UN-No. (IMDG)	Void
UN-No. (ADN)	Void

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Creation date: 01/07/2017

Revision date: NIL

14.2. UN proper shipping name

Proper Shipping Name (ADR)	Void
Proper Shipping Name (IATA)	Void
Proper Shipping Name (IMDG)	Void
Proper Shipping Name (ADN)	Void
Transport document description (ADR)	Void

14.3. Transport hazard class(es)

Class (ADR)	Void
Classification code (ADR)	Void
Class (IATA)	Void
Class (IMDG)	Void
Class (ADN)	Void
Classification code (ADN)	Void

14.4. Packing group

Packing group (ADR)	Void
Packing group (IATA)	Void
Packing group (IMDG)	Void
Packing group (ADN)	Void

14.5. Environmental hazards

None (non-environmentally hazardous acc. to the dangerous goods regulations).

14.6. Special precautions for user

Overland transport	
Hazard identification number (Kemler No.)	Not applicable
Classification code (ADR)	Not applicable
Tunnel restriction code (ADR)	Not applicable
EAC code	Not applicable
Transport by sea	
EmS-No. (Fire)	Not applicable
EmS-No. (Spillage)	Not applicable
Stowage category (IMDG)	Not applicable
Inland waterway transport	
Carriage prohibited (ADN)	Not applicable

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

The cargo is not intended to be carried in bulk

SECTION 15: Regulatory information

In the absence of local approval authorities/standard regulations.

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

EU regulations	
Authorisations and/or restrictions on use	Not listed
Authorisations	Not listed
Restrictions on use	Not listed
SVHC	Not listed

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

The latest version of Annex II of REACH (i.e. the Annex of Regulation (EU 2015/830))

16.1 Indication of changes

Version: 1.1

16.2 Abbreviations and acronyms

ADR/RID	European Agreements on the transport of Dangerous goods by Road/Railway
CAS	Chemical Abstracts Service
CLP	Classification, labelling and packaging (Regulation (EC) No1272/2008)
DNEL	Derived no-effect level
EC50	Half maximal effective concentration
ECHA	European Chemicals Agency
EINECS	European Inventory of Existing Commercial chemical Substances
IATA	International Air Transport Association
IMDG	International agreement on the Maritime transport of Dangerous Goods
LC50	Median lethal dose
OEL	Occupational exposure limit
OELV	Occupational exposure limit value
WEL	workplace exposure limit
PBT	Persistent, bio-accumulative and toxic
PNEC	Predicted no-effect concentration
REACH	Registration, Evaluation and Authorisation of Chemicals
SDS	Safety Data Sheet
STOT	Specific target organ toxicity
TLV-TWA	Threshold Limit Value-Time-Weighted Average
TRGS	Technische Regeln für Gefahrstoffe
UVCB	Substances of Unknown or Variable composition, Complex reaction products or Biological materials
vPvB	Very persistent, very bio-accumulative
w/w	Weight by weight
EH40/2005EH40/2005	Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
RID	Regulations concerning the International carriage of Dangerous goods by Rail

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Creation date: 01/07/2017

Revision date: NIL

16.3 Key literature references and sources of data

- (1) *GESTIS International Limit values Database* via <http://www.dguv.de/ifa/Gefahrstoffdatenbanken/GESTIS-Internationale-Grenzwerte/C3%BCr-chemische-Substanzen-limit-values-for-chemical-agents/index-2.jsp>.
- (2) *GESTIS DNEL Database*
- (3) The ECHA database on registered substances: (<http://apps.echa.europa.eu/registered/registered-sub.aspx>)
- (4) The ECHA classification and labelling inventory: http://echa.europa.eu/clp/c l inventory_en.asp
- (5) Toxnet is the United States of America's National Library of Medicine's toxicology data network. It gives access to databases on toxicology, hazardous chemicals, environmental health, and toxic releases.
- (6) eChemPortal (http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en) The eChemPortal is an effort of the Organisation for Economic Co-operation and Development (OECD) in collaboration with the European Commission (EC), the European Chemicals Agency (ECHA)
- (7) <https://pubchem.ncbi.nlm.nih.gov/compound/edta#section=Chemical-Vendors>

16.4 Relevant H-statements (number and full text)

Code: H304

Text: May be fatal if swallowed and enters airways.

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