



MATERIAL SAFETY DATA SHEET

Revised 25th November 2020

LOW ODOUR WHITE SPIRIT

SECTION 1: IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY

1.1. Product identifier

Product name:	LOW ODOUR WHITE SPIRIT
Index number :	649-327-00-6
EC number :	919-857-5 (Provisional.)
REACH Reg. number:	01-2119463258-33-0009
CAS Number :	64742-48-9
Product description :	Not available.
Product type :	Liquid.
Other means of identification / Product description	Content in Benzene <0.1% vol.

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

Identified uses
Distribution of substance - Industrial
Formulation and (re)packing of substances and mixtures - Industrial
Manufacture of substance -Industrial
Uses in cosmetics/personal care products, perfumes and fragrances - Consumer
Biocide
Use in fuel - Consumer
Use in fuel - Industrial
Use in fuel - Professional
Use as functional fluids - Consumer
Use as functional fluids - Industrial
Use as functional fluids - Professional
Use in binder and release agents - Industrial
Use in binder and release agents - Professional
Use in cleaning agents - Consumer
Use in cleaning agents - Industrial
Use in cleaning agents - Professional
Use in laboratories - Industrial
Use in laboratories - Professional
Use in Lubricants.-Professional
Use in Lubricants.-Professional: low Environmental Release Category
Use in Lubricants. - Consumer
Use in Lubricants. - Consumer: Low release
Use in Lubricants. - Industrial
Use in Use in metal working fluids/rolling oils - Industrial
Use in Use in metal working fluids/rolling oils - Professional
Uses Use in road and construction products - Professional
Use in water treatment agents - Consumer
Water treatment agent. - Industrial
Water treatment agent. - Professional
Use in coatings - Consumer
Use in coatings - Industrial
Use in coatings - Professional

1.3. Details of the Supplier of the safety data sheet

Supplier:	R.K. & J. Jones Limited
Address:	Southery Road, Feltwell Thetford, Norfolk, IP26 4EH, UK.
Telephone:	01842 828101

1.4. Emergency telephone number

NHS Direct: 0845 4647 / Textphone 0845 6064647

2. HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture****REGULATION (EC) No 1272/2008****Classification**

Flammable liquids – Category 3 – (H226)

Aspiration toxicity – Category 1 – (H304)

Specific target organ systemic toxicity (single exposure) – Category 3 – (H336)

See Section 16 for the full text of the H statements declared above.

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

2.2. Label elements**Labelled according to:** REGULATION (EC) No 1272/2008**EC Label** 919-857-5**Hazard pictograms****Signal Word** DANGER**Hazard Statements**

H226-Flammable liquid and vapour

H304-May be fatal if swallowed and enters airways

H336-May cause drowsiness or dizziness

Precautionary statements**General**

P103 - Read label before use.

P102 - Keep out of reach of children.

P101 - If medical advice is needed, have product container or label at hand.

Prevention

P280 – Wear protective gloves and eye/face protection

P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTRE/doctor

P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P243 – Take precautionary measures against static discharge

P261 – Avoid breathing dust/fume/gas/mist/vapours/spray

P271 Use only outdoors or in a well-ventilated area

P331 – Do NOT induce vomiting

P370 + P378 – In case of fire: Use carbon dioxide (CO₂) or dry chemical extinguisher for extinction**Supplemental Hazard Statements**

EUH066 – Repeated exposure may cause skin dryness or cracking

Contains Hydrocarbons, C₉-C₁₁, n-alkanes, isoalkanes, cyclics, <2% aromatics**2.3. Other hazards****Physical-Chemical Properties**

Vapours may form explosive mixtures with air.

Vapours are heavier than air and may spread near to ground level to

Properties Affecting Health sources of ignition
Repeated exposure may cause skin dryness or cracking.

Environmental properties Should not be released into the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Chemical nature

A complex and variable combination of paraffinic and cyclic hydrocarbons having a carbon number range predominantly of C9 to C11 and boiling in the range of approximately 130 °C to 210 °C

Chemical Name	EC-No	REACH Registration Number	CAS-No	Weight %	Classification (Dir. 67/548)	GHS Classification
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	919-857-5	01-2119463258-33	^	100	R10;R65	Flam. Liquid3 (H226) Asp. Tox. 1 (H304) STOT SE 3 (H336)

Additional information The EC substance definition and related classification and labelling has been developed in the framework of the Regulation (EC) No 1907/2006 (REACH). For information about the related CAS number see section 15 of this MSDS. The aromatic content is :< 0.5%

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

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

Eye Contact: Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.

Skin Contact: Remove contaminated clothing and shoes. Wash skin with soap and water.

Inhalation: In case of exposure to intense concentration of vapours, fumes or spray, transport the person away from the contaminated zone, keep warm and allow to rest.

Ingestion: Do not ingest. If swallowed. **DO NOT INDUCE VOMITING.** Seek medical help immediately.
Risk of product entering lungs on vomiting after ingestion.
In this case, the casualty should be sent immediately to hospital.

Protection of first-aiders Use personal protective equipment.

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

Eye contact Contact with eyes may cause irritation

Skin Contact Redness – Repeated exposure may cause skin dryness or cracking.

Inhalation Vapours may cause drowsiness and dizziness. May cause irritation. Inhalation of vapours may cause headache, nausea, vomiting and an altered state of consciousness.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. May cause central nervous system depression. Harmful: If swallowed accidentally, the product may enter the lungs due to low viscosity and lead to the rapid development of very serious inhalation pulmonary lesions (medical survey during 48 hours).

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

SECTION 5 : FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Foam. Dry Powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire

5.2.Special hazards arising from the substance or mixture:

Special hazard Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

5.3. Precautions for fire-fighters:

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and protective suit. In case of a large fire or in confined or poorly ventilated spaces, wear full fire resistant protective clothing and self-contained breathing apparatus(SCBA) with full face-piece operated in positive pressure mode.

Other information: Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1.Personal precautions, protective equipment and emergency procedures

General Information: Use personal protective equipment.
Evacuate non-essential personnel.
Ensure adequate ventilation, especially in confined areas.
Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area)
Do not touch or walk through spilled material.

6.2.Environmental precautions

General Information: Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills. The product should not be allowed to enter drains, water courses or the soil. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional Ecological information

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up: Use non-sparking hand tools and explosion proof electrical equipment.

Contain spillage, and then collect with non-combustable absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Following product recovery, flush area with water.

6.4. Reference to other sections

Personal protective equipment:

See Section 8 for more details

Waste treatment:

See Section 13

Other information:

Remove all sources of ignition.

Stop all work that requires a naked flame, stop all vehicles, stop all machines and equipment that may cause sparks or flames.

SECTION 7 : HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling:

For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.

Technical measures:

Ensure adequate ventilation.

Do not spray at high pressure (> 3 bar).

WHILE MOVING THE PRODUCT: To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Do not allow splash loading and ensure that the product is poured slowly, particularly at the beginning of the operation.

Prevention of fire and explosion:

OPERATE ONLY ON COLD AND DEGASSED TANKS IN VENTILATED PREMISES (TO AVOID RISK OF EXPLOSION).

Handle screened from all potential inflammation sources (open flame, sparks) and heat (hot manifolds or castings or hot walls). Do not smoke. Use explosion proof electrical equipment. Take precautionary measures against static discharges. Do not use compressed air for filling, discharging or handling. Design installations (machinery and equipment) to prevent burning product from spreading (tanks, retention systems, interceptors (traps) in drainage systems).

Hygiene measures:

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Do not dry hands with rags that have been contaminated with product. Do not use abrasives, solvents or fuels. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions:

Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts.

Storage installations should be designed with adequate bunds so as to prevent ground or water pollution in case of leaks or spills. Use explosion proof electrical equipment.

- Keep in a bunded area Keep in a dry, cool and well-ventilated place.
- Keep away from open flames, hot surfaces and sources of ignition. Ground/bond containers, tanks and transfer/receiving equipment. Store at room temperature.
- Keep containers tightly closed and properly labelled.

Materials to avoid: Strong acids. Oxidizing agents.

Packaging material: Keep only in the original container or in a suitable container for this kind of product. Steel, Stainless steel.

7.3. Specific use(s)

Specific use(s) See exposure scenarios

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parametres

Exposure limits: Components with workplace control parameters

Legend: See section 16

Advisory OEL CEFIC-HSPA : 1200 mg/m³

DNEL Worker (Industrial/Professional)

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics A			208 mg/kg bw/day (dermal) 871 mg/m ³ /8h (inhalation)	

DNEL Consumer

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics A			125 mg/kg bw/day (dermal) 185 mg/m ³ /24h (inhalation) 125 mg/kg bw/day (oral)	

8.2. Exposure controls

Occupational Exposure Controls

Engineering measures: When working in confined spaces (tanks, containers, etc.) ensure that there is a supply of air suitable for breathing and wear the recommended equipment. Apply technical measures to comply with occupational exposure limits.

Personal protective equipment

General Information: Protective engineering solutions should be implemented and in use before personal protective equipment is considered. These recommendations apply to the product as supplied. If the product is used in mixtures, it's recommended that you contact the appropriate protective equipment suppliers.

Respiratory protection: When workers are facing concentration above exposure limit they must

use appropriate certified respirators. For rescue and maintenance work in storage tanks use self-contained breathing apparatus.

In an emergency or for exceptional short-lasting jobs in an atmosphere polluted by the product, it's necessary to wear a protective respiratory equipment.

The use of breathing apparatus must comply strictly with manufacturer's instructions and the regulations governing their choices and uses.

Eye Protection: If splashes are likely to occur, wear: Safety glasses with side-shields.

Skin and body protection: Wear suitable protective clothing. Protective shoes or boots.

Hand Protection: Impermeable gloves, aliphatic hydrocarbon resistant.

Repeated or prolonged exposure			
Glove material	Glove thickness	Break through time	Remarks
Nitrile rubber	> 0.55 mm	> 480 min	EN 374
PVA	(*)	> 480 min	EN 374 (*) all layer thickness
Fluorinated rubber Viton (R)	(*)	> 480 min	EN 374 (*) all layer thickness

In case of contact through splashing:			
Glove material	Glove thickness	Break through time	Remarks
Chloroprene Neoprene	> 0.75 mm	> 60 min	EN 374
Nitrile rubber	> 0.38 mm	> 60 min	EN 374

Environmental exposure controls

General Information: Do not allow material to contaminate ground water system.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1. Information on basic physical and chemical properties

Colour colourless
 Physical state @20°C liquid
 Odour characteristic
 Odour Threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH		Not applicable	

Melting point/range		No information available	
Boiling point/boiling range	150 - 200 °C 302 - 401 °F		ISO 3405 ISO 3405
Flash point	> 41 °C > 106 °F		ISO 2719 ISO 2719
Evaporation rate	65	EtEt=1	DIN 53170
Flammability Limits in Air			
Upper	8 %		
Lower	0.6 %		
Vapour pressure	4 hPa	@ 15 °C	
Vapour density		No information available	
Relative density		No information available	
Density	> 770 kg/m ³	@ 15 °C	ISO 12185
Water solubility		Substance is a UVCB. Standard tests for this endpoint are not appropriate	
Solubility in other solvents		Soluble in many common organic solvents	
logPow		Not applicable	
Autoignition temperature	> 230 °C	This temperature may be significantly lower under particular conditions (slow oxidation on finely divided materials...)	ASTM E 659-78
	> 446 °F		ASTM E 659-78
Decomposition temperature		No information available	
Viscosity, kinematic	< 1.09 mm ² /s	@ 40 °C	ASTM D 445
Explosive properties		Not considered explosive based on chemical structure and oxygen balance considerations	
Oxidising properties		This product is not considered oxidising based on chemical structure considerations	
Possibility of hazardous reactions		None under normal processing	

9.2. Other Information

Surface tension	0.026 N/m	@ 20 °C	EN 14370
Freezing point		No information available	

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity None under normal processing

10.2. Chemical stability: Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions: None under normal processing

10.4. Conditions to Avoid: Heat, Flames and sparks. Take precautionary measures against static discharges.

10.5. Incompatible materials: Strong oxidizing agents

10.6. Hazardous Decomposition

Products: Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity Local effects, Product Information

Skin Contact: *Symptoms: Redness*
Repeated exposure can cause skin dryness and cracking.

Eye Contact: Contact with eyes may cause Irritation.

Inhalation: Vapours may cause drowsiness. May cause irritation, Inhalation of vapours may cause headache, nausea, vomiting and an altered state of consciousness

Ingestion: Harmful: If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious inhalation pulmonary lesions Risk of severe pulmonary problems in case of accidental aspiration. (Medical survey during 48 hours)Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. May cause central nervous system depression.

Acute toxicity Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	LD50 > 5000 mg/kg bw (rat - OECD 401)	LD50 (24h) > 5000 mg/kg bw (rabbit - OECD 402)	LC50 (8h) > 5000 mg/m ³ (vapour) (rat - OECD 403)

Sensitisation Not classified as a sensitizer

Specific Effects

Carcinogenicity This product is not classified carcinogenic.

Mutagenicity The mutagenic potential of the substance has been extensively studied in a range of in-vivo and in-vitro assays.

Germ cell mutagenicity Genetic toxicity : Negative

Reproductive toxicity No information available.

Developmental Toxicity substance Results of guideline developmental toxicity studies on the and OECD developmental toxicity screening studies showed no evidence of developmental toxicity in rats.

Repeated Dose Toxicity

Target Organ Effects (STOT) Central nervous system.

Specific target organ systemic Toxicity (single exposure) Vapours may cause drowsiness and dizziness.

Specific target organ systemic Toxicity (repeated exposure) No known effects based on information supplied

Aspiration toxicity The fluid can enter the lungs and cause damage (chemical pneumonitis, potentially fatal).

Other information

Other adverse effects Frequent or prolonged skin contact destroys the lipoacid cutaneous layer and may cause dermatitis

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

Acute aquatic toxicity Product Information

Chronic aquatic toxicity Product Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics ^A	Erl50 (72h) > 1000 mg/l (Pseudokirchneriella subcapitata - OECD 201) Ebl50 (72h) > 1000 mg/l (Pseudokirchneriella subcapitata - OECD 201)	EL50 (48h) > 1000 mg/l (Daphnia magna - OECD 202)	LL50 (96h) > 1000 mg/l (Oncorhynchus mykiss - OECD 203)	-

Chronic aquatic toxicity - Product Information

Not applicable.

Chronic aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics ^A	NOELR (72h) = 3 mg/l (Pseudokirchneriella subcapitata - biomass - OECD 201) NOELR (72h) = 100 mg/l (Pseudokirchneriella subcapitata - growth rate - OECD 201)	NOELR (21d) = 0.23 mg/l (Daphnia magna - QSAR)	NOELR (28d) = 0.13 mg/l (Oncorhynchus mykiss - QSAR Petrotox)	

Effects on terrestrial organisms

No information available.

12.2. Persistence and Degradability**General Information**

Readily biodegradable (80% after 28 days.)

Biodegradation							
Type	Method	Sampling time	Specific effects	Values	Unit	Biodegradability	Source
	OECD 301 F	28 days		80	%	Readily biodegradable	

12.3. Bioaccumulative potential

Product information Substance is a UVCB. Standard tests for this endpoint are not appropriate

logPow Not applicable

Component information Not applicable

12.4. Mobility in Soil:

Soil Given its physical and chemical characteristics, the product has no soil mobility.

Air The product evaporates readily.

Water The product is insoluble and floats on water.

12.5. Results of PBT and vPvB assessment

PVT and vPvB Assessment This substance is considered not to be PBT and vPvB.

12.6. Other adverse effects

General information No information available

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Waste fro residues / unused products	Dispose of in accordance with the European Directives on waste and hazardous waste.
Contaminated packaging	Empty containers may contain flammable or explosive vapours. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EWC Waste Disposal No	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14 : TRANSPORT INFORMATION

ADR/RID

UN/ID No	UN3295
Proper shipping name	HYDROCARBONS, LIQUID, N.O.S.
Hazard Class	3
Packing group	III
ADR/RID-Labels	3
Classification Code	F1
Tunnel restriction code	(D/E)
ADR Hazard Id (Kemmler Number)	30
Description	UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III
Excepted Quantity	E1
Limited quantity	5 L
Hazchem Code	3Y

IMDG/IMO

UN/ID No	UN3295
Proper shipping name	Hydrocarbons, liquid, n.o.s.
Hazard Class	3
Packing group	III
Marine pollutant	NP
EmS	F-E, S-D
Description	UN3295, Hydrocarbons, liquid, n.o.s. (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics), 3, III, (41°C c.c.)
Special Provisions	223
Excepted Quantity	E1
Limited quantity	5 L

ICAO/IATA

UN/ID No	UN3295
Hazard Class	3
Proper shipping name	Hydrocarbons, liquid, n.o.s.
Packing group	III
ERG Code	3L
Special Provisions	A3
Description	UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, PG III
Excepted Quantity	E1
Limited quantity	10 L

ADN

UN/ID No	UN3295
Proper shipping name	HYDROCARBONS, LIQUID, N.O.S.
Hazard Class	3
Hazard Labels	3
Packing group	III
Classification Code	F1
Description	UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III
Excepted Quantity	E1
Limited quantity	5 L
Ventilation	VE01

SECTION 15 : REGULATORY INFORMATION

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

European Union

REACH

The EC substance definition is included in the CAS related number description for global inventory entries

Other regulations

Directive 1999/13/EC on the limitation of emissions of volatile organic compounds

Directive 2004/42EC on the limitation of emissions of volatile organic compounds

Take note of Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work.

Related CAS number 64742-48-9
64742-47-8

International Inventories The substance is listed or exempted from listing in the following inventories:
Europe (EINECS/ELINCS/NLP)
U.S.A. (TSCA)
Canada (DSL/NDSL)
Australia (AICS)
Korea (KECL)
China (IECSC)
Japan (ENCS)
Philippines (PICCS)
New Zealand (NZIoC)
Taiwan (TCSI)

Further information

No information available

15.2. Chemical Safety Assessment

A chemical Safety Assessment has been carried out for this substance

15.3. National regulatory information

The United Kingdom

Avoid exceeding occupational exposure limited (see section 8)

Ireland

Avoid exceeding occupational exposure limited (see section 8)

SECTION 16 : OTHER HEALTH AND SAFETY INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H226 - Flammable liquid and vapour

H304 - May be fatal if swallowed and enters airways

H336 - May cause drowsiness or dizziness

EUH066 - Repeated exposure may cause skin dryness or cracking

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists
 bw = body weight
 bw/day = body weight/day
 EC x = Effect Concentration associated with x% response
 GLP = Good Laboratory Practice
 IARC = International Agency for Research of Cancer
 LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals
 LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals
 LL = Lethal Loading
 NIOSH = National Institute of Occupational Safety and Health
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 NOEL = No Observed Effect Level
 OECD = Organization for Economic Co-operation and Development
 OSHA = Occupational Safety and Health Administration
 UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material
 DNEL = Derived No Effect Level
 PNEC = Predicted No Effect Concentration
 dw = dry weight
 fw = fresh water
 mw = marine water
 or = occasional release

Legend Section 8

TWA: Time Weight Average
 STEL: Short Time Exposure Limit

+	Sensitiser	*	Skin designation
**	Hazard Designation	C:	Carcinogen
M:	Mutagen	R:	Toxic to reproduction

Revision Date: 2017-11-06
Revision Note (M)SDS sections updated: 14. & 1.

Further information Other uses than these listed under section 1.2 may have been foreseen for the substance(s) contained in the product. Please contact us if your use is not listed under section 1.2.

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

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

Disclaimer:

If this product is re-distributed and re-formulated for sale, details of its hazards and recommended methods for safe handling must be passed to customers. Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customer's responsibility to ensure that a suitable and sufficient assessment of the risks created by a work activity using this product is undertaken before this product is used.

Note: The information contained in this Safety Data Sheet does not constitute the users own assessment of workplace risk as required by other Health & Safety Legislation (e.g. the Health and Safety at Work Act, 1974; the control of Substances Hazardous to Health Regulations, 1988). The data given here is based on current knowledge and experience. The purpose of this data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties.

Revised 25/11/2020