SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Print Date 12-May-2026 **Revision date** 12-May-2026 **Version** 9

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

1.1. Product identifier

Product name Emfinity®SR TMS 50I

Unique Formula Identifier (UFI) DF49-J57W-P307-TN1R

INCI name Isododecane & Trimethylsiloxysilicate

Pure substance/mixture Mixture

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

Recommended Use Cosmetic additive

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

BRB International B.V.
Branskamp 12
6014 CB Ittervoort
The Netherlands
☎ +31 475 560 300

BRB Central Eastern Europe Sp. z o.o.
ul. Wielicka 28B
30-522 Krakow
Poland
☎ +48 124 157 922

BRB Malaysia Sdn Bhd
No 112, Kawasan Perindustrian
Gebeng
Kuantan, Pahang 26080
Malaysia
☎ +603 5858 588

For further information, please contact
Contact Point Regulatory Affairs Department

E-mail address MSDS@brbbv.com

1.4. Emergency telephone number

Emergency telephone +44 1235 239670 (NCEC 24/7) For additional emergency telephone numbers see section 16 of the safety data sheet.

Emergency telephone - §45 - (EC)1272/2008	
Europe	**112**
Bulgaria	+359 2 9154 233 (24/7)
Czech Republic	+420 224 919 293 +420 224 915 402
France	+33 (0)1 45 42 59 59 (24/7)
Italy	Numero telefonico del centro antiveleni: 0039 02-66101029
Netherlands	Nationaal Vergiftigingen Informatie Centrum (NVIC): +31 (0)88 755 8000 Uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen
Spain	+34 91 562 04 20(24h/365 días), Únicamente para respuesta sanitaria en caso de urgencia

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to
Regulation (EC) No. 1272/2008 [CLP]

Aspiration hazard	Category 1 - (H304)
Hazardous to the aquatic environment - chronic	Category 4 - (H413)
Flammable liquids	Category 3 - (H226)

2.2. Label elements

Contains Isododecane



Signal word
Danger

Hazard statements

H304 - May be fatal if swallowed and enters airways
H413 - May cause long lasting harmful effects to aquatic life
H226 - Flammable liquid and vapour
EUH066 - Repeated exposure may cause skin dryness or cracking

Precautionary Statements - EU (§28, 1272/2008)
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
P331 - Do NOT induce vomiting
P370 + P378 - In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish
P273 - Avoid release to the environment
P403 + P235 - Store in a well-ventilated place. Keep cool

Additional information
This product requires child resistant fastenings when supplied to the general public unless the product is placed on the market in the form of aerosols or in a container with a sealed spray attachment.

2.3. Other hazards

No information available.

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	EC No (EU Index No)	CAS No.	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Weight-%
2,2,4,6,6-pentamethylheptane	236-757-0	13475-82-6	01-2119490725-29	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Aquatic Chronic 4 (H413) (EUH066)	50-100

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate
If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice IF exposed or concerned: Get medical advice/attention.

Inhalation Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical attention. Delayed pulmonary edema may occur.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Rub greasy ointment into the skin. If skin irritation persists, call a doctor.

Ingestion ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Self-protection of the first aider Remove all sources of ignition. Use personal protective equipment as required. See section 8 for more information.

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

Symptoms Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Repeated exposure may cause skin dryness or cracking.

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

Note to doctors Observe risk of aspiration if vomiting occurs.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	Risk of ignition. Flammable. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Hazardous combustion products	Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx).

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. Cool containers with flooding quantities of water until well after fire is out. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Special danger of slipping by leaking/spilling product. Use personal protective equipment as required. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.
Other information	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	Should not be released into the environment.

6.3. Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Use personal protective equipment as required. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dam up. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Take precautionary measures against static discharges.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections	See section 8 for more information. See Section 12 for additional Ecological Information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling	Ensure adequate ventilation. Use personal protection equipment. Keep away from heat, hot

surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Ground and bond all lines and equipment associated with product system. All equipment should be non-sparking and explosion proof. Avoid contact with skin, eyes or clothing.

General hygiene considerations Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Keep in an area equipped with sprinklers. Keep/store only in original container. Restrict access to stockrooms.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Material Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
2,2,4,6,6-pentamethylheptane 13475-82-6	TWA: 1000 mg/m³ STEL: 1500 mg/m³	–	–	–	–

Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
2,2,4,6,6-pentamethylheptane 13475-82-6	–	–	–	TWA: 40 ppm TWA: 275 mg/m³ STEL: 60 ppm STEL: 343.75 mg/m³	–

Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
2,2,4,6,6-pentamethylheptane 13475-82-6	–	TWA: 700 mg/m³ STEL: 1000 mg/m³	–	–	–

Chemical name	Sweden	Switzerland	United Kingdom	Turkey
2,2,4,6,6-pentamethylheptane 13475-82-6	NGV: 350 mg/m³	–	–	

Biological occupational exposure limits
This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face protection Tight sealing safety goggles.

Hand protection Wear suitable gloves. Gloves must conform to standard EN 374.

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
Long term (repeated)	Wear protective nitrile rubber gloves	>=0.4 mm	>=480 minutes

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

Respiratory protection Respiratory protection necessary at:. insufficient ventilation. exposure limit overshoot. insufficient exhaust. Handling larger quantities. Wear positive pressure self-contained breathing apparatus (SCBA). Filtering device (full mask or mouthpiece) with filter.

Recommended Filter type: ABEK1/ ABEK2.

General hygiene considerations Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colourless
Odour	characteristic.
Odour threshold	No information available

Property	**Values**	**Remarks • Method**
Melting point/freezing point	No data available	None known
Boiling point / boiling range	> 150 °C	
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit:	4 Vol-%	
Lower flammability limit	0.5 Vol-%	
Flash Point	approx. 45 °C	
Autoignition Temperature	No data available	None known
Decomposition temperature		None known
pH	No data available	
pH (as aqueous solution)	No data available	No information available
Kinematic viscosity	<= 6.99 mm2/s	@ 40◦C
	approx. 13 mm2/s	@ 25◦C
Dynamic viscosity	No data available	None known
Water solubility	No data available	@ 20◦C
Solubility(ies)	Insoluble in water	
Partition coefficient	No data available	None known
Vapour pressure	< 10 hPa	@ 20◦C
Relative Density		
	approx. 0.916 g/cm3	@ 25◦C
Bulk Density	No data available	
Density	No data available	
Vapour Density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

9.2.1. Information with regards to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data
Sensitivity to mechanical impact None.
Sensitivity to static discharge Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials Incompatible with oxidising agents. Acids. Bases.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition can lead to release of irritating and toxic gases and vapours. Carbon dioxide (CO2). Carbon monoxide. Nitrogen oxides (NOx).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known or supplied information

Inhalation Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract.

Eye contact Specific test data for the substance or mixture is not available. May cause irritation.

Skin contact Repeated exposure may cause skin dryness or cracking.

Ingestion Specific test data for the substance or mixture is not available. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Difficulty in breathing. Coughing and/ or wheezing. Dizziness.

Numerical measures of toxicity

Acute toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2,2,4,6,6-pentamethylheptane	> 5000 mg/kg (Rat OECD 401)	> 5000 mg/kg (rabbit OECD 402)	> 4951 mg/l (Rat 4h OECD 403)

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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

2,2,4,6,6-pentamethylheptane (13475-82-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit	Dermal			non-irritant

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

2,2,4,6,6-pentamethylheptane (13475-82-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	Eye			non-irritant

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

2,2,4,6,6-pentamethylheptane (13475-82-6)

Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitisation	Guinea pig	Dermal	Did not cause sensitisation on laboratory animals

Germ cell mutagenicity Based on available data, the classification criteria are not met.

2,2,4,6,6-pentamethylheptane (13475-82-6)

Method	Species	Results
OECD Test No. 471: Bacterial Reverse Mutation Test	in vitro Salmonella typhimurium	Negative
OECD Test No. 473: In vitro Mammalian Chromosome Aberration Test	in vitro	Negative
OECD Test No. 476: In vitro Mammalian Cell Gene Mutation Test	in vitro	Negative
OECD Test No. 478: Genetic Toxicology: Rodent Dominant Lethal Test	Rat	Negative
OECD Test No. 474: Mammalian Erythrocyte Micronucleus Test	Mouse	Negative

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

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

2,2,4,6,6-pentamethylheptane (13475-82-6)

Method	Species	Results
OECD Test No. 421: Reproduction/Developmental Toxicity Screening Test	Rat	Negative
OECD Test No. 414: Pre-natal Development Toxicity Study	Rat	Negative

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

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

2,2,4,6,6-pentamethylheptane (13475-82-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 408: Repeated Dose 90-Day Oral Toxicity Study in Rodents	Rat	Oral		90 days	NOAEL >= 5000 mg/kg
OECD Test No. 413: Sub-chronic Inhalation Toxicity: 90-day Study	Rat	Inhalation Vapour		90 days	NOAEL >=10.4 mg/l

Aspiration hazard May be fatal if swallowed and enters airways.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity May cause long lasting harmful effects to aquatic life.

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.

2,2,4,6,6-pentamethylheptane (13475-82-6)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test	Oncorhynchus mykiss (rainbow trout)	LL50	> 1000 mg/L	96 hours	
	Acartia tonsa	EL50	> 3000 mg/L	48 hours	
ISO 10253	Skeletonema costatum	EL50	> 10000 mg/L	72 hours	
ISO 10253	Skeletonema	NOELR	10000 mg/L	72 hours	

	costatum				
OECD Test No. 209: Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)		EC50	> 100 mg/L	3 hours	
OECD Test No. 211: Daphnia magna Reproduction Test	Daphnia magna	NOEC	< 1 mg/L	21 days	

12.2. Persistence and degradability

Persistence and degradability No information available.

Product Information
Biodegradation No information available
BOD No information available
ThCO2 No information available
DOC No information available

12.3. Bioaccumulative potential

Bioaccumulation (factor) No information available

Component Information

Chemical name	Partition coefficient
2,2,4,6,6-pentamethylheptane	6.96

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
2,2,4,6,6-pentamethylheptane	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects
No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Contaminated packages must be completely emptied and can be re-used following proper cleaning. Clean IBCs or drums at approved facility. Packaging which cannot be properly

cleaned must be disposed of. Handle contaminated packages in the same way as the product itself.

OTHER INFORMATION Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

IATA

14.1 UN number or ID number	UN2286
14.2 UN proper shipping name	Pentamethylheptane
14.3 Transport hazard class(es)	3
14.4 Packing group	III
Description	UN2286, Pentamethylheptane, 3, III
14.5 Environmental Hazard	No
14.6 Special precautions for user	
Special Provisions	None
ERG Code	3L
Limited quantity (LQ)	10 L

IMDG

14.1 UN number or ID number	UN2286
14.2 UN proper shipping name	Pentamethylheptane (2,2,4,6,6-pentamethylheptane)
14.3 Transport hazard class(es)	3
14.4 Packing group	III
Description	UN2286, Pentamethylheptane (2,2,4,6,6-pentamethylheptane), 3, III, (45°C c.c.)
14.5 Environmental Hazard	No
14.6 Special precautions for user	
Special Provisions	None
EmS-No.	F-E, S-D
Limited quantity (LQ)	5 L
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number or ID number	UN2286
14.2 UN proper shipping name	PENTAMETHYLHEPTANE
14.3 Transport hazard class(es)	3
14.4 Packing group	III
Description	UN2286, PENTAMETHYLHEPTANE, 3, III
14.5 Environmental Hazard	No
14.6 Special precautions for user	
Special Provisions	None
Classification code	F1
Limited quantity (LQ)	5 L

ADR

14.1 UN number or ID number	UN2286
14.2 UN proper shipping name	Pentamethylheptane
14.3 Transport hazard class(es)	3
14.4 Packing group	III
Description	UN2286, Pentamethylheptane, 3, III, (D/E)
14.5 Environmental Hazard	No
14.6 Special precautions for user	
Special Provisions	None
Classification code	F1
Tunnel restriction code	(D/E)
ADR Hazard Id (Kemmler Number)	30
Limited quantity (LQ)	5 L

SECTION 15: Regulatory information

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

Germany

Storage class 3

European Union

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

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)

P5a - FLAMMABLE LIQUIDS
P5b - FLAMMABLE LIQUIDS
P5c - FLAMMABLE LIQUIDS

Ozone-depleting substances (ODS) Regulation (EU) 2024/590

Not applicable

International Inventories

TSCA	Complies
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Complies
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AICS	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status
NECI	Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals
NECI - Taiwan National Existing Chemical Inventory

15.2. Chemical safety assessment

Chemical Safety Report Chemical safety assessments for substances in this mixture were not carried out For this

substance a chemical safety assessment has not been carried out

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of any hazard and/or precautionary statements referred to under Sections 2-15
EUH066 - Repeated exposure may cause skin dryness or cracking
H226 - Flammable liquid and vapour
H304 - May be fatal if swallowed and enters airways
H413 - May cause long lasting harmful effects to aquatic life

Emergency telephone number

Czech Republic	+420 228 882 830 (NCEC 24/7)
Denmark	+45 8988 2286 (NCEC 24/7)
Finland	+358 9 7479 0199 (NCEC 24/7)
France	+33 1 72 11 00 03 (NCEC 24/7)
Germany	+49 89 220 61012 (NCEC 24/7)
Greece	+30 21 1198 3182 (NCEC 24/7)
Italy	+39 02 3604 2884 (NCEC 24/7)
Netherlands	+31 10 713 8195 (NCEC 24/7)
Norway	+47 2103 4452 (NCEC 24/7)
Poland	+48 22 307 3690 (NCEC 24/7)
Portugal	+351 30880 4750 (NCEC 24/7)
Spain	+34 91 114 2520 (NCEC 24/7)
Sweden	+46 8 566 42573 (NCEC 24/7)
Turkey	+90 212 375 5231 (NCEC 24/7)
Middle East	+973 1619 8321 (NCEC 24/7)
Middle East / Africa	+44 1235 239671 (NCEC 24/7)

Legend
SVHC: Substances of Very High Concern for Authorisation:

Legend SECTION 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Revision date 12-May-2026

Revision note See the red text with asterisks in this safety data sheet for the latest changes.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

End of Safety Data Sheet