

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 02/07/2013 Revision date: 26/11/2020 Supersedes version of: 08/01/2020 Version: 4.0

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

1.1. Product identifier

Product form Product name UFI Product code : Mixture

- : Mineralised Methylated Spirit
- : 5830-30VR-800D-JNUM
- : MMSPGEN

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

1.2.1. Relevant identified uses

Intended for general public Main use category Use of the substance/mixture

: Industrial use,Professional use,Consumer use: Solvents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer	Distributor
Rustins Ltd	Excellence Ltd
Waterloo Road	43 Grange Parade,
London NW2 7TX	Unit 43 Baldoyle Industrial Estate,
United Kingdom	D13 Y860 Dublin Ireland
T +44(0)2084504666 - F +44(0)2084522008	T 00353 (0)1 8323300 - F 00353 (0)1 8323584
rustins@rustins.co.uk - rustins.ltd	Orders@excellence.ie - www.excellence.ie

1.4. Emergency telephone number

Emergency number

: T +44(0)2084504666 (Office hours only 8am - 5pm Mon- Thurs. 8 am - 4.30 pm Fri.)

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

SECTION 2: Hazards identification 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Flammable liquids, Category 2 H225 Serious eye damage/eye irritation, Category 2 H319 Specific target organ toxicity — Single exposure, Category 3, Narcosis H336

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. Causes serious eye irritation.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

2.2. Label elements

Labelling according to Regulation (EC) No.	1272/2008 [CLP]
Hazard pictograms (CLP)	GHS02 GHS07
Signal word (CLP)	: Danger
Contains	: isopropanol; MEK (METHYL ETHYL KETONE), BUTANONE
Hazard statements (CLP)	: H225 - Highly flammable liquid and vapour.
	H319 - Causes serious eye irritation.
	H336 - May cause drowsiness or dizziness.
Precautionary statements (CLP)	: P102 - Keep out of reach of children.
	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 - Avoid breathing mist, vapours, spray. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear eye protection, protective gloves. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 - Store locked up. P501 - Dispose of contents, container to hazardous or special waste collection point, in
Child-resistant fastening	accordance with local, regional, national and/or international regulation. : Not applicable
Tactile warning	: Applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethanol; ethyl alcohol	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5 (REACH-no) 01-2119457610-43	≥ 70 – < 95	Flam. Liq. 2, H225
isopropanol	(CAS-No.) 67-63-0 (EC-No.) 200-661-7 (EC Index-No.) 603-117-00-0 (REACH-no) 01-2119457558-25	≥ 1 – < 30	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
MEK (METHYL ETHYL KETONE), BUTANONE	(CAS-No.) 78-93-3 (EC-No.) 201-159-0 (EC Index-No.) 606-002-00-3 (REACH-no) 01-2119457290-43	≥ 1 – < 30	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Full text of H-statements: see section 16

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact	 Remove person to fresh air and keep comfortable for breathing. Rinse skin with water/shower. Take off immediately all contaminated clothing. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/effects after eye contact	: Eye irritation.
4.3. Indication of any immediate med	ical attention and special treatment needed
Treat symptomatically.	

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the subst	ance or mixture
Fire hazard Hazardous decomposition products in case of fire	Highly flammable liquid and vapour.Toxic fumes may be released.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release meas	ures
6.1. Personal precautions, protective equ	ipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containmen	nt and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorised site.

6.4. Reference to other sections

For further information refer to section 13.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, includ	ing any incompatibilities
Technical measures Storage conditions	Ground/bond container and receiving equipment.Store in a well-ventilated place. Keep cool. Keep container tightly closed.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ethanol; ethyl alcohol (64-17-5)		
Ireland - Occupational Exposure Limits		
Local name	Ethanol [Ethyl alcohol]	
OEL (15 min ref) (ppm)	1000 ppm	
Regulatory reference	Chemical Agents Code of Practice 2020	
United Kingdom - Occupational Exposure Limits		
Local name	Ethanol	
WEL TWA (mg/m³)	1920 mg/m³	
WEL TWA (ppm)	1000 ppm	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

isopropanol (67-63-0)		
Ireland - Occupational Exposure Limits		
Local name	Isopropyl alcohol [Propan-2-ol]	
OEL (8 hours ref) (ppm)	200 ppm	
OEL (15 min ref) (ppm)	400 ppm	
Notes (IE)	Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body)	
Regulatory reference	Chemical Agents Code of Practice 2020	
United Kingdom - Occupational Exposure Limits		
Local name	Propan-2-ol	
WEL TWA (mg/m³)	999 mg/m³	
WEL TWA (ppm)	400 ppm	
WEL STEL (mg/m³)	1250 mg/m ³	
WEL STEL (OEL STEL) [ppm]	500 ppm	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

MEK (METHYL ETHYL KETONE), BUTA	NONE (78-93-3)	
Ireland - Occupational Exposure Limits		
Local name	Methyl ethyl ketone (MEK)	
OEL (8 hours ref) (mg/m³)	600 mg/m ³	
OEL (8 hours ref) (ppm)	200 ppm	
OEL (15 min ref) (mg/m3)	900 mg/m³	
OEL (15 min ref) (ppm)	300 ppm	
Notes (IE)	Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values)	
Regulatory reference	Chemical Agents Code of Practice 2020	
United Kingdom - Occupational Exposure L	imits	
Local name	Butan-2-one (methyl ethyl ketone)	
WEL TWA (mg/m ³)	600 mg/m ³	
WEL TWA (ppm)	200 ppm	
WEL STEL (mg/m ³)	899 mg/m³	
WEL STEL (OEL STEL) [ppm]	300 ppm	
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
United Kingdom - Biological limit values		
Local name	Butan-2-one (methyl ethyl ketone)	
United Kingdom (BEI)	70 µmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Protective goggles. Gloves.

and protection:
rotective gloves
ye protection:
chemical goggles or safety glasses
kin and body protection:
Vear suitable protective clothing
Respiratory protection:
n case of insufficient ventilation, wear suitable respiratory equipment

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Divisional state	. Linuid
Physical state	: Liquid
Colour	: Purple.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 78 °C @ 760 mmHg
Flash point	: 12 cc
Auto-ignition temperature	: 365 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: 58 mbar @ 20 oC
Relative vapour density at 20 °C	: No data available
Relative density	: 0.805 @ 20 oC
Solubility	: Miscible.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

10.6. Hazardous decomposition products

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

11.1. Information on toxicological effects	
Acute toxicity (dermal)	 Not classified Not classified Not classified
ethanol; ethyl alcohol (64-17-5)	
LD50 oral rat	15010 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 40 (Acute Oral Toxicity), 95% CL: 14450 - 15560
LD50 oral	8300 mg/kg bodyweight Animal: mouse
isopropanol (67-63-0)	
LD50 oral rat	5840 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity
LD50 dermal rabbit	16400 mg/kg Source: ECHA
MEK (METHYL ETHYL KETONE), BUTANON	IE (78-93-3)
LD50 oral rat	2193 mg/kg Source: ECHA
LC50 Inhalation - Rat (Vapours)	32 mg/l Source: RTECS
Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity	 Not classified Causes serious eye irritation. Not classified Not classified Not classified
ethanol; ethyl alcohol (64-17-5)	
IARC group	1 - Carcinogenic to humans
isopropanol (67-63-0)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
ethanol; ethyl alcohol (64-17-5)	
NOAEL (subchronic, oral, animal/male, 90 days)	< 9700 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)
NOAEL (subchronic, oral, animal/female, 90 days)	> 9400 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

Not rapidly degradable

ethanol; ethyl alcohol (64-17-5)	
LC50 fish 1	14.2 g/l Test organisms (species): Pimephales promelas
ErC50 (algae)	275 mg/l Source: ECHA
NOEC (chronic)	9.6 mg/l Test organisms (species): Daphnia magna Duration: '9 d'

isopropanol (67-63-0)	
LC50 fish 1	10000 mg/l Test organisms (species): Pimephales promelas
LC50 fish 2	9640 mg/l Test organisms (species): Pimephales promelas

MEK (METHYL ETHYL KETONE), BUTANONE (78-93-3)	
LC50 fish 1	2993 mg/l Test organisms (species): Pimephales promelas
EC50 Daphnia 1	308 mg/l Test organisms (species): Daphnia magna
EC50 72h algae (1)	1972 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h algae (1)	2029 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential	
ethanol; ethyl alcohol (64-17-5)	
Partition coefficient n-octanol/water (Log Pow)	-0.32 Source: ICSC
isopropanol (67-63-0)	
Partition coefficient n-octanol/water (Log Pow)	0.05 Source: ICSC
MEK (METHYL ETHYL KETONE), BUTANON	NE (78-93-3)
Partition coefficient n-octanol/water (Log Pow)	0.29 Source: ICSC
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
Component	

Component	
isopropanol (67-63-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal consideration	5
13.1. Waste treatment methods	
Waste treatment methods Additional information	 Dispose of contents/container in accordance with licensed collector's sorting instructions. Flammable vapours may accumulate in the container.

SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID
I4.1. UN number				
UN 1170	UN 1170	UN 1170	UN 1170	UN 1170
I4.2. UN proper shippin	g name			
ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	Ethanol solution	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Fransport document descr	iption			
UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II, (D/E)	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II	UN 1170 Ethanol solution, 3, II	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3 II
I4.3. Transport hazard o	class(es)			
3	3	3	3	3
14.4. Packing group				
II	II	II	II	II
4.5. Environmental haz	ards			
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No

14.6. Special precautions for user

Overland transport	
Classification code (ADR)	: F1
Special provisions (ADR)	: 144, 601
Limited quantities (ADR)	: 11
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions	: TP1
(ADR)	
Tank code (ADR)	: LGBF

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Operation (ADR)	: S2, S20
Hazard identification number (Kemler No.)	: 33
Orange plates	
	33
	1170
Tunnel restriction code (ADR)	: D/E
EAC code	: •2YE
Transport by sea	
Special provisions (IMDG)	: 144
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	:
Properties and observations (IMDG)	: Colourless, volatile liquids.Pure ETHANOL: flashpoint 13°C c.c. Explosive limits: 3.3% to
r roperties and observations (nubo)	19% Miscible with water.
Air transport	
Air transport PCA Excepted quantities (IATA)	: E2
PCA Excepted quantities (IATA) PCA Limited quantities (IATA)	· EZ : Y341
	: 1041 : 1L
PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 555 : 5L
CAO packing instructions (IATA)	. SL : 364
CAO max net quantity (IATA)	: 504 : 60L
Special provisions (IATA)	
ERG code (IATA)	: A3, A58, A180 : 3L
	. JL
Inland waterway transport Classification code (ADN)	: F1
Special provisions (ADN)	: 144, 601
Limited quantities (ADN)	: 144,001 : 1L
Excepted quantities (ADN)	: E2
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1
Rail transport Classification code (RID)	: F1
. ,	
Special provisions (RID) Limited quantities (RID)	: 144, 601 : 1L
Excepted quantities (RID) Packing instructions (RID)	: E2 : P001, IBC02, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container instructions (RD) Portable tank and bulk container special provisions	2 14 2 TP1
(RID)	. 11 1
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 33

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

Not applicable

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

Reference code	Applicable on	Entry title or description
3(a)	Mineralised Methylated Spirit ; isopropanol ; MEK (METHYL ETHYL KETONE), BUTANONE	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
3(b)	Mineralised Methylated Spirit ; isopropanol ; MEK (METHYL ETHYL KETONE), BUTANONE	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
40.	Mineralised Methylated Spirit ; isopropanol ; MEK (METHYL ETHYL KETONE), BUTANONE	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:					
New format.					
Section	Changed item	Change	Comments		
1.3	Additional information	Added	Barrettine (Europe) Ltd		
2.1	Hazard statements (CLP)	Added	H336		

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

EC50Median effective concentrationEC-No.European Community numberENEuropean StandardIATAInternational Air Transport AssociationIMDGInternational Maritime Dangerous GoodsLC50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect LevelNOECOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDSafety Data Sheet		
ENEuropean StandardIATAInternational Air Transport AssociationIMDGInternational Maritime Dangerous GoodsLC50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect LevelNOECOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDRegulations concerning the International Carriage of Dangerous Goods by Rail	EC50	Median effective concentration
IATAInternational Air Transport AssociationIMDGInternational Maritime Dangerous GoodsLC50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect LevelNOECOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDRegulations concerning the International Carriage of Dangerous Goods by Rail	EC-No.	European Community number
IMDGInternational Maritime Dangerous GoodsLC50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect LevelNOECNo-Observed Effect ConcentrationOELOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegulations concerning the International Carriage of Dangerous Goods by Rail	EN	European Standard
LC50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect LevelNOECNo-Observed Effect ConcentrationOELOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDRegulations concerning the International Carriage of Dangerous Goods by Rail	ΙΑΤΑ	International Air Transport Association
LD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect LevelNOECNo-Observed Effect ConcentrationOELOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDRegulations concerning the International Carriage of Dangerous Goods by Rail	IMDG	International Maritime Dangerous Goods
LOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect LevelNOECNo-Observed Effect ConcentrationOELOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDRegulations concerning the International Carriage of Dangerous Goods by Rail	LC50	Median lethal concentration
NOAECNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect LevelNOECNo-Observed Effect ConcentrationOELOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDRegulations concerning the International Carriage of Dangerous Goods by Rail	LD50	Median lethal dose
NOAELNo-Observed Adverse Effect LevelNOECNo-Observed Effect ConcentrationOELOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDRegulations concerning the International Carriage of Dangerous Goods by Rail	LOAEL	Lowest Observed Adverse Effect Level
NOECNo-Observed Effect ConcentrationOELOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDRegulations concerning the International Carriage of Dangerous Goods by Rail	NOAEC	No-Observed Adverse Effect Concentration
OELOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDRegulations concerning the International Carriage of Dangerous Goods by Rail	NOAEL	No-Observed Adverse Effect Level
PBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDRegulations concerning the International Carriage of Dangerous Goods by Rail	NOEC	No-Observed Effect Concentration
PNEC Predicted No-Effect Concentration REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 RID Regulations concerning the International Carriage of Dangerous Goods by Rail	OEL	Occupational Exposure Limit
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 RID Regulations concerning the International Carriage of Dangerous Goods by Rail	PBT	Persistent Bioaccumulative Toxic
RID Regulations concerning the International Carriage of Dangerous Goods by Rail	PNEC	Predicted No-Effect Concentration
	REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS Safety Data Sheet	RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
	SDS	Safety Data Sheet
vPvB Very Persistent and Very Bioaccumulative	vPvB	Very Persistent and Very Bioaccumulative
WGK Water Hazard Class	WGK	Water Hazard Class

Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 2	Flammable liquids, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis	
H225	Highly flammable liquid and vapour.	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	

The classification complies with : ATP 12

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.