

	SAFETY DATA SHEET									
		according to Regulation (EC) I	No 1907/2006 (REACH) a	as amended						
Karl Fischer reagent B Creation date 10th September 2019										
Creat	ion date	10th September 2019								
Revis	on date	28th February 2024	Version	4.0						
SECT	ION 1: Identificatio	on of the substance/mixture a	nd of the company/ur	ndertaking						
1.1.	Product identifie	r	Karl Fischer reag	ent B						
	Substance / mixtur	re	mixture							
	UFI	F3J7-71F8-5005-RM3D								
1.2.	Relevant identifie	ed uses of the substance or m	ixture and uses advise	ed against						
	Mixture's intended use									
	Chemical production, analytical chemistry, laboratory synthesis, industrial applications.									
	Mixture uses advised against									
	The product should not be used in ways other than those referred in Section 1.									
1.3.	Details of the sup	oplier of the safety data sheet								
	Supplier		Y							
	Name or trac	le name	Ing. Petr Švec - I	PENTA s.r.o.						
	Address			Praha 10, 102 00						
			Czech Republic							
	Identification	number (CRN)	02096013							
	VAT Reg No		CZ02096013							
	Phone		+420 226 060 68							
	E-mail		info@pentachem							
	Web address		www.pentachem	icals.eu						
	• •	on responsible for the safety d	v							
	Name		Ing. Petr Švec - I							
	E-mail		info@pentachem	icals.eu						
1.4.	Emergency telep									
	European emergen	cy number: 112 112								

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture Classification of the mixture in accordance with Regulation (EC) No 1272/2008 The mixture is classified as dangerous

The mixture is classified as dangerous.

Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 3, H311+H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 1, H370

Most serious adverse physico-chemical effects

Highly flammable liquid and vapour.

Most serious adverse effects on human health and the environment

Causes severe skin burns and eye damage. Causes damage to organs. Causes serious eye damage. Harmful if swallowed. Toxic in contact with skin or if inhaled.

2.2. Label elements

Hazard pictogram





SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 (REACH) as amended Karl Fischer reagent B Creation date 10th September 2019 Revision date 28th February 2024 Version 4.0 **Hazardous substances** pyridine sulphur dioxide methanol Hazard statements H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H370 Causes damage to organs. H311+H331 Toxic in contact with skin or if inhaled. **Precautionary statements** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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. P310 Immediately call a doctor.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 613-002-00-7 CAS: 110-86-1 EC: 203-809-9 Registration number: 01-2119493105-40- xxxx	pyridine	68-72	Flam. Liq. 2, H225 Acute Tox. 4, H302+H312+H332	3
Index: 016-011-00-9 CAS: 7446-09-5 EC: 231-195-2	sulphur dioxide	14-18	Press. Gas (compressed gas), H280 Skin Corr. 1B, H314 Acute Tox. 3, H331 STOT SE 1, H370 (respiratory tract) (inhalation)	1, 2, 3
Index: 603-001-00-X CAS: 67-56-1 EC: 200-659-6 Registration number: 01-2119433307-44- xxxx	methanol	10-15	Flam. Liq. 2, H225 Acute Tox. 3, H301, H311, H331 STOT SE 1, H370 Specific concentration limit: STOT SE 1, H370: $C \ge 10 \%$ STOT SE 2, H371: 3 % $\le C < 10$ %	3, 4



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Notes

1 Note U (Table 3): When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned:

Press. Gas (Comp.) Press. Gas (Liq.) Press. Gas (Ref. Liq.) Press. Gas (Diss.)

Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

- 2 Note 5: The concentration limits for gaseous mixtures are expressed as volume per volume percentage.
- 3 A substance for which exposure limits are set.
- 4 The use of the substance is restricted by Annex XVII of REACH Regulation

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Take care of your own safety, do not let the affected person walk! Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse cautiously with water for several minutes. Rinse skin with water or shower.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

Vomiting should be induced in the person only if conscious, within 1 hour from ingestion. If in doubt whether vomiting should be induced, contact the Toxicological Information Centre and give information about the substances or composition of the product as provided on the original packaging or in the safety data sheet of the product. FOLLOWING INGESTION OF TOXIC OR HIGHLY TOXIC SUBSTANCES, GIVE 10-20 CRUSHED TABLETS OF ACTIVATED CARBON, MIXED IN WATER, WITHIN NO LATER THAN 5 MINUTES - irrespective of whether vomiting could be induced. Call medical rescue service.

Most important symptoms and effects, both acute and delayed

If inhaled

Inhaling vapours can cause corrosion of the breathing system. Cough, headache.

If on skin

Causes severe skin burns.

If in eyes

Causes serious eye damage.

If swallowed

Corrosion of the digestion system can occur.

4.2.



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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist. **Unsuitable extinguishing media**

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Highly flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. No smoking. Wash hands and exposed parts of the body thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a wellventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Store locked up. Keep container tightly closed. Keep cool.

Content	Packaging type	Material of package
10 kg	jug	PET



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Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union	Commission Directive (EU) 2017/16		
Substance name (component)	Туре	Value	Note
	OEL 8 hours	1,3 mg/m ³	
	OEL 8 hours	0,5 ppm	
sulphur dioxide (CAS: 7446-09-5)	OEL 15 minutes	2,7 mg/m ³	
	OEL 15 minutes	1 ppm	

European Union

Commission Directive 2006/15/EC

Substance name (component)	Туре	Value	Note
methanol (CAS: 67-56-1)	OEL 8 hours	260 mg/m ³	Skin
	OEL 8 hours	200 ppm	SKIII

European Union

Commission Directive 91/322/EEC

Substance name (component)	Туре	Value	Note
p_{ij}	OEL 8 hours	15 mg/m ³	
pyridine (CAS: 110-86-1)	OEL 8 hours	5 ppm	

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

Use insulating breathing apparatus when the exposition limits of the substances are exceeded or at the place with insufficient ventilation.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.



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SECTI	ON 9: Physical and chemical properties									
9.1.	Information on basic physical and chemical prope	erties								
	Physical state	liquid								
	Colour	yellow								
	Odour	characteristic								
	Melting point/freezing point	data not available								
	Boiling point or initial boiling point and boiling range	65 °C								
	Flammability	data not available								
	Lower and upper explosion limit	data not available								
	Flash point	11 °C								
	Auto-ignition temperature	data not available								
	Decomposition temperature	data not available								
	pH	data not available								
	Kinematic viscosity	data not available								
	Solubility in water	soluble								
	Partition coefficient n-octanol/water (log value)	data not available								
	Vapour pressure	data not available								
	Density and/or relative density									
	Density	1.057 g/cm ³ at 20 °C								
	Relative vapour density	data not available								
	Particle characteristics	data not available								
9.2.	Other information									
	not available									

The product is stable under normal conditions. **10.3. Possibility of hazardous reactions** Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

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

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.



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Acute toxicity

Harmful if swallowed. Toxic in contact with skin or if inhaled.

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Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source	
Oral	ATE	600.4 mg/kg				Calculation of value		
Dermal	ATE	965 mg/kg				Calculation of value		
Inhalation (vapor)	ATE	7.52 mg/l				Calculation of value		

nethanol								
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source	
Oral	LD 5 0	100.1 mg/kg		Rat				
Dermal	LD50	300.1 mg/kg		Rat				
Inhalation (vapor)	LC50	3.1 mg/l	4 hours	Rat				

pyridine	yridine								
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source		
Oral	LD50	1500 mg/kg		Rat (Rattus norvegicus)			ECHA		
Inhalation	LC50	17.1 mg/l	4 hours	Rat (Rattus norvegicus)	F/M		US-EPA		

Skin corrosion/irritation

Causes severe skin burns and eye damage.

pyridine				
Route of exposure	Result	Exposure time	Species	
Skin	Slightly irritating	24 hours	Rabbit	

Serious eye damage/irritation

Causes severe skin burns and eye damage. Causes serious eye damage.

pyridine				
Route of exposure	Result	Exposure time	Species	
Eye	Irritating	24 hours	Rabbit	

Respiratory or skin sensitisation

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

pyridine					
Route of exposure	Result	Method	Exposure time	Species	Sex
	Negative	OECD 429		Mouse	



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Germ cell mutagenicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

pyridine					
Result	Method	Exposure time	Specific target organ	Species	Sex
Negative	OECD 471				
Negative	OECD 476		Lung fibroblast	Chinese hamster (Cricetulus barabensis)	
Negative	OECD 475		Bone marrow	Mouse	

Carcinogenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Reproductive toxicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Toxicity for specific target organ - single exposure

Causes damage to organs. Data for the components of the mixture are not available.

Toxicity for specific target organ - repeated exposure

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Aspiration hazard

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

Acute toxicity

methanol						
Parameter	Method	Value	Exposure time	Species	Environmen t	
LC50		15400 mg/l	96 hours	Fish (Lepomis macrochirus)		
EC₅o		>10 000 mg/kg	48 hours	Daphnia (Daphnia magna)		

pyridine					
Parameter	Method	Value	Exposure time	Species	Environmen t
EC50	OECD 203	500-1000 mg/l	96 hours	Fish (Danio rerio)	
2000	0100 100	2000 2000	20110010		



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pyridine	pyridine					
Parameter	Method	Value	Exposure time	Species	Environmen t	
EC₅o	OECD 202	320 mg/l	48 hours	Daphnia (Daphnia magna)		
EC50	OECD 201	320 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		

12.2. Persistence and degradability

Data for the mixture are not available.

Biodegradability

methanol					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301D	99 %		Fresh water	Easily biodegradable

pyridine Parameter Method Value Exposure time Environment Result OECD 301B 97 % 28 days Easily biodegradable

12.3. Bioaccumulative potential

No data are available for either the mixture or the components.

12.4. Mobility in soil

No data are available for either the mixture or the components.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport information

- 14.1. UN number or ID number
 - UN 1992



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14.2.	UN proper shipping name						
	FLAMMABLE LIQUID, TOXIC, N.O.S. (Conta	ins methanol, pyridine, sulphur d	lioxide)				
14.3.	Transport hazard class(es)3 Flammable liquids						
14.4.	Packing group						
	II						
14.5.	Environmental hazards not relevant						
14.6.							
	Reference in the Sections 4 to 8.						
14.7.	· · · · · · · · · · · · · · · · · · ·	o IMO instruments					
	not relevant						
	Additional information						
	Hazard identification No.	336					
	UN number	1992					
	Classification code	FT1					
	Safety signs	3+6.1					
	Tunnel restriction code	(D/E)					
	Air transport - ICAO/IATA						
	Packaging instructions passenger	352					
	Cargo packaging instructions	364					
	Marine transport - IMDG						
	EmS (emergency plan)	F-E, S-D					
	MFAG	310					

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

methanol	
Restriction	Conditions of restriction
69	Shall not be placed on the market to the general public after 9 May 2019 in windscreen washing or defrosting fluids, in a concentration equal to or greater than 0,6 % by weight.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out (mixture).

SECTION 16: Other information



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	risk phrases used in the safet		
H225	Highly flammable liq	juid and vapour.	
H280		pressure; may explode	e if heated.
H301	Toxic if swallowed.		
H302	Harmful if swallowed	1.	
H311	Toxic in contact with	ı skin.	
H314	Causes severe skin b	burns and eye damage	э.
H318	Causes serious eye o	damage.	
H331	Toxic if inhaled.		
H370	Causes damage to the	he respiratory tract if	inhaled.
H370	Causes damage to o	organs.	
H371	May cause damage t		
H311+H331	Toxic in contact with		
H302+H312+H332	Harmful if swallowed	d, in contact with skin	or if inhaled.
	fe handling used in the safety		
P210			s, open flames and other ignition sources.
	No smoking.	, r- ···	
P260		/fume/gas/mist/vapou	
P280			g/eye protection/face protection.
P301+P330+P331		nse mouth. Do NOT ind	
P303+P361+P353			y all contaminated clothing. Rinse skin
	with water or showe	r.	
P305+P351+P338			or several minutes. Remove contact
		d easy to do. Continue	e rinsing.
P310	Immediately call a d		
	nformation about human heal	-	
			rer/importer - used for purposes other than
	1. The user is responsible for adh		eaith protection regulations.
-	ons and acronyms used in the	-	
ADR	European agreement road	t concerning the inter	national carriage of dangerous goods by
BCF		tor	
	Bioconcentration Fac Chemical Abstracts S		
CAS			ation labolling and nackasing of
CLP	Regulation (EC) No 1 substance and mixtu		cation, labelling and packaging of
EC		or each substance liste	ed in FINECS
EC EC50			fected 50% of the population
EL50 EINECS			
			al Chemical Substances
EmS	Emergency plan		
EU	European Union	atogorization Cont	
EuPCS	•	ategorisation System	
IATA	International Air Tra		nd Equipment of China Card
IBC			nd Equipment of Ships Carrying
ICAO	Dangerous Chemical		
	International Civil Av	-	
IMDG IMO	International Maritim	5	
IMO	International Maritim	-	varadianta
INCI		nclature of Cosmetic Ir	5
ISO	-	zation for Standardiza	
IUPAC		of Pure and Applied Cl	
LC50	Lethal concentration population	or a substance in whi	ich it can be expected death of 50% of the



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LD50	Lethal dose of a substance in which it can be expected death of 50% of the population			
log Kow	Octanol-water part	ition coefficient		
OEL	Occupational Expos	Occupational Exposure Limits		
PBT	Persistent, Bioaccu	Persistent, Bioaccumulative and Toxic		
ppm	Parts per million	Parts per million		
Press. Gas (Comp.)	Gas under pressure	e: compressed gas		
Press. Gas (Diss.)	Gas under pressure	Gas under pressure: dissolved gas		
Press. Gas (Liq.)	Gas under pressure	Gas under pressure: liquefied gas		
Press. Gas (Ref. Liq.)	Gas under pressure: refrigerated liquefied gas			
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals			
RID	Agreement on the transport of dangerous goods by rail			
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations			
UVCB	Substances of unki biological materials		ition, complex reaction products or	
VOC	Volatile organic cor	npounds		
vPvB	Very Persistent and	d very Bioaccumulative		
Acute Tox.	Acute toxicity			
Eye Dam.	Serious eye damag	e		
Flam. Liq.	Flammable liquid			
Press. Gas	Gases under press	ure		
Skin Corr.	Skin corrosion			
STOT SE	Specific target orga	an toxicity - single expos	sure	
Training guidelines				
Inform the personnel ways of handling the		s of use, mandatory pro	stective equipment, first aid and prohibited	
Recommended rest	rictions of use			
not available				
Information about o	lata sources used to comp	ile the Safety Data Sh	eet	
REGULATION (EC) No REGULATION (EC) No	o. 1907/2006 OF THE EURO	PEAN PARLIAMENT AND EAN PARLIAMENT AND	OF THE COUNCIL (REACH) as amended. OF THE COUNCIL as amended. Data from	

The changes (which information has been added, deleted or modified)

The version 4.0 replaces the SDS version from 08 June 2023. Changes were made in sections 2, 15 and 16.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.