Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Tank system OneU / spare part

Version number: 4.0 Replaces version of: 2017-12-13 (3) Revision: 2023-02-13 First version: 2017-12-13

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

1.1	Product identifier				
	Trade name	Tank system OneU / spare part			
		article number: 928015			
	Registration number (REACH)	not relevant (article)			
	CAS number	not relevant (article)			
1.2	Relevant identified uses of the substance or	mixture and uses advised against			
	Relevant identified uses	Fire fighting equipment			
1.3	Details of the supplier of the safety data she	et			
	Minimax GmbH Industriestrasse 10/12 23840 Bad Oldesloe Germany	Telephone: +49 (0) 4531 - 803 0 e-mail: mv_rd_spezial@mx-vk.eu Website: www.minimax.de			
	e-mail (competent person)	sdb@csb-compliance.com			
	Please do not use this e-mail address to ask for the Minimax GmbH.	e latest safety data sheet. For this purpose contact			
1.4	Emergency telephone number				
	Emergency information	Consultank GmbH +49 (0) 178 433 7434			
	As above or nearest toxicological information cent	re.			
SECTI	ON 2: Hazards identification				
2.1	Classification of the substance or mixture				
	Classification according to Regulation (EC) No 1	272/2008 (CLP)			

Classific	Classification							
Section	Hazard class	Category	Hazard class and category	Hazard state- ment				
4.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412				

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses. May displace oxygen and cause rapid suffocation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Not required.

Pictograms Not required.

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273	Avoid release to the environment.
P501	Dispose of contents/container in accordance with local/regional/national/interna-
	tional regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Endocrine disrupting properties

None of the ingredients are listed.

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (article)

3.2 Article

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
				riccograms
1,1,1,2,2,4,5,5,5-nona- fluoro-4-(trifluoro- methyl)-3-pentanone	CAS No 756-13-8	≥90	Aquatic Chronic 3 / H412	-
	EC No			
	436-710-6			
	Index No			
	606-108-00-X			
	REACH Reg. No			
	01-0000018239-65-			
	хххх			

Other

airbug gas generator fitted

For full text of H-phrases: see SECTION 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Remove affected person from the danger area and lay down. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

Provide fresh air.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Mouth to mouth resuscitation should be avoided. Use alternative methods, preferably with oxygen or compressed air driven apparatus.

Following skin contact

Thaw frosted parts carefully with cold water. Call a physician immediately.

Following eye contact

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Following ingestion

Rinse mouth. Do not induce vomiting. Get medical advice/attention if you feel unwell.

Notes for the doctor

None.

4.2 Most important symptoms and effects, both acute and delayed

Asphyxiant gas, may displace oxygen and cause rapid suffocation.

4.3 Indication of any immediate medical attention and special treatment needed

Where appropriate provide artificial respiration.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Co-ordinate firefighting measures to the fire surroundings

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products: Section 10.

Hazardous combustion products

carbon monoxide (CO), carbon dioxide (CO2), hydrogen fluoride (HF)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

self-contained breathing apparatus

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Self-contained breathing apparatus.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Ventilate affected area.

Advice on how to clean up a spill

Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not breathe vapour/spray.

Measures to prevent fire as well as aerosol and dust generation

Not required.

Specific notes/details

None.

Measures to protect the environment

Avoid release to the environment.

7.2 Conditions for safe storage, including any incompatibilities

Flammability hazards

None.

Incompatible substances or mixtures

Incompatible materials: see section 10.

Protect against external exposure, such as

heat

Consideration of other advice

Keep away from food, drink and animal feeding stuffs.

Ventilation requirements

Provision of sufficient ventilation.

Specific designs for storage rooms or vessels

Keep container tightly closed and in a well-ventilated place.

Storage temperature

recommended storage temperature: -20 - 40 °C

Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

This information is not available

Relevant DNELs of components of the mixture						
Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time
1,1,1,2,2,4,5,5,5- nonafluoro-4-(tri- fluoromethyl)-3- pentanone	756-13-8	DNEL	83.4 mg/ m ³	human, inhalat- ory	worker (industry)	chronic - system ic effects
1,1,1,2,2,4,5,5,5- nonafluoro-4-(tri- fluoromethyl)-3- pentanone	756-13-8	DNEL	11.8 mg/ kg	human, dermal	worker (industry)	chronic - system ic effects

Relevant PNECs of components of the mixture					
Name of substance	CAS No	Endpoint	Threshold level	Environmental com- partment	
1,1,1,2,2,4,5,5,5-nonafluoro-4- (trifluoromethyl)-3-pentanone	756-13-8	PNEC	6.78 ^{µg} / _l	freshwater	
1,1,1,2,2,4,5,5,5-nonafluoro-4- (trifluoromethyl)-3-pentanone	756-13-8	PNEC	0.678 ^{µg} / _l	marine water	
1,1,1,2,2,4,5,5,5-nonafluoro-4- (trifluoromethyl)-3-pentanone	756-13-8	PNEC	1 ^{mg} /l	sewage treatment plant (STP)	
1,1,1,2,2,4,5,5,5-nonafluoro-4- (trifluoromethyl)-3-pentanone	756-13-8	PNEC	2.67 ^{mg} / _{kg}	freshwater sediment	
1,1,1,2,2,4,5,5,5-nonafluoro-4- (trifluoromethyl)-3-pentanone	756-13-8	PNEC	0.267 ^{mg} / _{kg}	marine sediment	
1,1,1,2,2,4,5,5,5-nonafluoro-4- (trifluoromethyl)-3-pentanone	756-13-8	PNEC	0.53 ^{mg} / _{kg}	soil	

8.2 Exposure controls

Appropriate engineering controls

Use local and general ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Use protective eyewear to guard against splash of liquids.

Hand protection

Protective gloves					
Material	Material thickness	Breakthrough times of the glove material			
data are not available	data are not available	data are not available			

Wear suitable gloves.

In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Wear cold insulating gloves/face shield/eye protection.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Self-contained breathing apparatus.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

Physical state liquid Colour colourless Odour liqht Melting point/freezing point not determined Boiling point or initial boiling point and boiling ave C Flammability non-combustible Lower and upper explosion limit not determined Auto-ignition temperature not determined Decomposition temperature not determined Pf (value) not determined Not determined not determined Dynamic viscosity not determined Dynamic viscosity not determined Vatour solubility(ies) not miscible in any proportion Partition coefficient n-octanol/water (log value) not determined Vapour pressure not determined Density and/or relative density not determined Particle characteristics not determined Particle characteristics not determined Particle characteristics not determined Potermined not determined Particle characteristics not determined Particle characteristics not determined Particle characteristics	SECTI	ECTION 9: Physical and chemical properties						
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classes not relevant	9.2	Other information						
Other safety characteristics there is no additional information								
		Other safety characteristics	there is no additional information					

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

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

Classification procedure

If not otherwise specified the classification is based on: Classification acc. to 1272/2008/EC.

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Test data are not available for the complete mixture.

Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species	Method
1,1,1,2,2,4,5,5,5-nonafluoro- 4-(trifluoromethyl)-3-pentan- one	756-13-8	oral	LD50	>2,000 ^{mg} / _{kg}	rat	-
1,1,1,2,2,4,5,5,5-nonafluoro- 4-(trifluoromethyl)-3-pentan- one	756-13-8	dermal	LD50	>2,000 ^{mg} / kg	rat	-

Skin corrosion/irritation

Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Serious eye damage/eye irritation

Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Respiratory or skin sensitisation Skin sensitisation

Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Respiratory sensitisation

Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Germ cell mutagenicity

Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Carcinogenicity

Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Reproductive toxicity

Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Specific target organ toxicity - single exposure

Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Specific target organ toxicity - repeated exposure

Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Other information

Freezing.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients are listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity (acute)

Name of sub- stance	CAS No	Endpoint	Value	Species	Method	Expos- ure time
1,1,1,2,2,4,5,5,5- nonafluoro-4-(tri- fluoromethyl)-3- pentanone	756-13-8	LC50	>1,070 ^{mg} / _l	fathead minnow (Pimephales pro- melas)	-	96 h
1,1,1,2,2,4,5,5,5- nonafluoro-4-(tri- fluoromethyl)-3- pentanone	756-13-8	EC50	>1,080 ^{mg} / _l	daphnia magna	-	48 h

Aquatic toxicity (chronic)

Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Biodegradation

Not readily biodegradable.

Name of sub- stance	CAS No	Process	Degradation rate	Time	Method
1,1,1,2,2,4,5,5,5- nonafluoro-4-(tri- fluoromethyl)-3- pentanone	756-13-8	carbon dioxide generation	1.8 – 3.4 %	28 d	-

Persistence

No data available.

12.3 Bioaccumulative potential

Name of substance	CAS No	BCF	Log KOW
1,1,1,2,2,4,5,5,5-nona- fluoro-4-(trifluoromethyl)-3- pentanone	756-13-8	4.8	3.08 (30 °C)

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

Tank system OneU / spare part

12.7 Other adverse effects

Ozone depletion potential	0
Global warming potential	1

Remarks

Wassergefährdungsklasse, WGK (water hazard class): 1

SECTION 13: Disposal considerations

13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions.

SECTION 14: Transport information		
14.1	UN number or ID number	
	ADR/RID/ADN	UN3363
	IMDG-Code	UN3363
	ICAO-TI	UN3363
14.2	UN proper shipping name	
	ADR/RID/ADN	DANGEROUS GOODS IN APPARATUS
	IMDG-Code	DANGEROUS GOODS IN APPARATUS
	ΙCAO-ΤΙ	Dangerous goods in apparatus
14.3	Transport hazard class(es)	
	ADR/RID/ADN	9
	IMDG-Code	9
	ICAO-TI	9
14.4	Packing group	-
14.5	Environmental hazards	-
14.6	Special precautions for user	-

14.7 Maritime transport in bulk according to IMO - instruments

14.8 Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) Additional information

Particulars in the transport document	UN3363, DANGEROUS GOODS IN APPARATUS, 9	
Classification code	M11	
Danger label(s)	9	
Special provisions (SP)	301, 672	
Excepted quantities (EQ)	EO	
Limited quantities (LQ)	0	

European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN) Additional information

Number of cones/blue lights	0
	0

International Maritime Dangerous Goods Code (IMDG) Additional information

Marine pollutant	-
Danger label(s)	9
Special provisions (SP)	301
Excepted quantities (EQ)	EO
Limited quantities (LQ)	0
EmS	F-A, <u>S-P</u>
Stowage category	A
International Civil Aviation Organization (IC/	AO-IATA/DGR) Additional information
Danger label(s)	9
\bigcirc	
Special provisions (SP)	A48, A107

Special provisions (SP)	A48, A107
Excepted quantities (EQ)	EO
Limited quantities (LQ)	see 962

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Name	Name acc. to inventory	CAS No	Restriction
Tank system OneU / spare part	this product meets the criteria for clas- sification in accordance with Regulation No 1272/2008/EC	-	R3

Legend

R3 1. Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

- tricks and jokes,

- games for one or more participants, or any article intended to be used as such, even with ornamental aspects,

2. Articles not complying with paragraph 1 shall not be placed on the market.

3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:

— can be used as fuel in decorative oil lamps for supply to the general public, and

- present an aspiration hazard and are labelled with H304.

4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).

5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:

(a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";
(b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';
(c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.';

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

Seveso Directive

Not assigned.

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

None of the ingredients are listed.

Regulation on the marketing and use of explosives precursors

None of the ingredients are listed.

Regulation on drug precursors

None of the ingredients are listed.

Regulation on substances that deplete the ozone layer (ODS)

None of the ingredients are listed.

Regulation concerning the export and import of hazardous chemicals (PIC)

None of the ingredients are listed.

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

15.2 Chemical Safety Assessment

A chemical safety assessment was performed by the manufacturer.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de nav- igation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement con- cerning the International Carriage of Dangerous Goods by Road)
ADR/RID/ADN	Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Water- ways (ADR/RID/ADN)
Aquatic Chron- ic	Hazardous to the aquatic environment - chronic hazard
BCF	Bioconcentration factor
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical sub- stances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance caus- ing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations

Tank system OneU / spare part

Abbr.	Descriptions of used abbreviations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regula- tion (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality dur- ing a specified time interval
log KOW	n-Octanol/water
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
SVHC	Substance of Very High Concern
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH).

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties.

Health hazards.

Environmental hazards.

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H412	Harmful to aquatic life with long lasting effects.

Responsible for the safety data sheet

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Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product. This safety data sheet is for information only and does not comply with the official language requirements of article 31 (5) of REACH.