



TRAFIMET GROUP SPA A SOCIO UNICO

Revision nr. 2

Dated 30/10/2022

Printed on 30/10/2022

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Replaced revision:1 (Printed on: 05/08/2020)

**CERAMIC PROTECTION**

## Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

**1.1. Product identifier**

Product name  
Chemical name and synonym  
UFI

**CERAMIC PROTECTION**  
**UT1000089**  
**1110-104Q-900G-MSNA**

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

Intended use **Anti-adhesive for welding (aerosol)**

Identified Uses	Industrial	Professional	Consumer
USE	PC: 24.	PC: 24.	-

**1.3. Details of the supplier of the safety data sheet**

Name  
Full address  
District and Country

**TRAFIMET GROUP SPA A SOCIO UNICO**  
**via del Lavoro, 8**  
**36020 Castegnero (VI)**  
**ITALIA**  
**Tel. +39 0444 739900**  
**Fax +39 0444 739999**

e-mail address of the competent person  
responsible for the Safety Data Sheet

**msds@trafimet.com**

**1.4. Emergency telephone number**

For urgent inquiries refer to **NHS 111**

### SECTION 2. Hazards identification

**2.1. Classification of the substance or mixture**

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Aerosol, category 1	H222 H229	Extremely flammable aerosol. Pressurised container: may burst if heated.
Eye irritation, category 2	H319	Causes serious eye irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.

**2.2. Label elements**

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Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:

**Danger**

Hazard statements:

<b>H222</b>	Extremely flammable aerosol.
<b>H229</b>	Pressurised container: may burst if heated.
<b>H319</b>	Causes serious eye irritation.
<b>H336</b>	May cause drowsiness or dizziness.
<b>EUH066</b>	Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

<b>P102</b>	Keep out of reach of children.
<b>P210</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
<b>P211</b>	Do not spray on an open flame or other ignition source.
<b>P251</b>	Do not pierce or burn, even after use.
<b>P261</b>	Avoid breathing fumes / gases / mist / vapors / aerosols.
<b>P271</b>	Use only outdoors or in a well-ventilated area.
<b>P410+P412</b>	Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.
<b>P501</b>	Dispose of the product / container in accordance with local regulations.

**Contains:** ACETONE

### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

Aerosol containers exposed to temperatures above 50 ° C can deform and burst and be thrown a considerable distance. Exposure to high concentrations of vapors, particularly in confined and inadequately ventilated areas, can cause irritation to the respiratory tract, nausea, malaise and dizziness.

## SECTION 3. Composition/information on ingredients

### 3.1. Substances

Information not relevant

### 3.2. Mixtures

Contains:

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Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
<b>ACETONE</b>		
INDEX 606-001-00-8	$40 \leq x < 50$	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC 200-662-2		
CAS 67-64-1		
REACH Reg. 01-2119471330-49		
<b>BUTANE</b>		
INDEX 601-004-00-0	$15 \leq x < 20$	Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: C, U
EC 203-448-7		
CAS 106-97-8		
REACH Reg. 01-2119474691-32		
<b>PROPANE</b>		
INDEX 601-003-00-5	$12,5 \leq x < 15$	Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: U
EC 200-827-9		
CAS 74-98-6		
REACH Reg. 01-2119486944-21		
<b>ISOBUTANE</b>		
INDEX 601-004-00-0	$7 \leq x < 10$	Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: C, U
EC 200-857-2		
CAS 75-28-5		
REACH Reg. 01-2119485395-27		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.

Percentage of propellants: 42,00 %

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing and wash it before reuse.

Immediately wash areas of the body that have come into contact with the product, even if only suspect, with plenty of running water and possibly soap.

Wash the body completely (shower or bath). In case of irritation consult a doctor.

In case of eye contact:

In case of contact with the eyes, rinse them immediately and abundantly with lukewarm water for at least 15 minutes keeping the eyelids open, removing the contact lenses if the situation allows the operation to be carried out easily. Immediately consult an ophthalmologist. Protect the unharmed eye.

In case of ingestion:

Accidental ingestion of an aerosol product is hardly likely. If this occurs, consult a doctor; induce vomiting only on doctor's instruction; do not give anything by mouth if the person is unconscious.

In case of inhalation:

Take the injured person outdoors and keep him warm and at rest. Consult a doctor in case of difficult breathing.

Protective measures for first responders:

For PPE necessary for first aid, refer to section 8.2 of this Safety Data Sheet.

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

**CERAMIC PROTECTION**

Causes serious eye irritation. It can cause drowsiness or dizziness. Repeated exposure can cause skin dryness and cracking.

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

In the event of an accident or if you feel unwell, seek medical advice immediately (if possible show the instructions for use or the safety data sheet).  
Treatment: None in particular.

**SECTION 5. Firefighting measures****5.1. Extinguishing media**

Suitable extinguishing media: Carbon dioxide (CO<sub>2</sub>), foam or powder extinguisher.  
Extinguishing media which must not be used for safety reasons: None in particular.

**5.2. Special hazards arising from the substance or mixture**

Do not inhale the gases produced by the explosion and combustion.  
Combustion generates a complex mixture of gases, including CO (carbon monoxide), CO<sub>2</sub> (carbon dioxide) and unburned hydrocarbons. The container exposed to a temperature higher than 50 ° C can deform and burst.

**5.3. Advice for firefighters**

If feasible from a safety point of view, move undamaged containers from the area of immediate danger. Cool the containers hit by the fire with water spray to avoid overheating. Do not let extinguishing media enter sewers or water courses.  
Wear complete fireproof protective equipment (Type EN 11611 or EN469), with compressed air breathing apparatus (Type EN 137), helmet with visor and neck protection (Type EN443), heat-resistant gloves (Type EN407). Collect the contaminated water used to extinguish the fire separately. Do not discharge it into the sewer system.

**SECTION 6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

For those who do not intervene directly: Eliminate all sources of ignition (cigarettes, flames, sparks, electricity, etc.) or heat from the area where the leak occurred and provide adequate ventilation. Evacuate the surrounding areas and prevent the entry of external and unprotected personnel. Notify emergency teams.

Stop the leak if there is no danger. Do not handle damaged containers or spilled product without first putting on the appropriate protective equipment. Avoid breathing vapor or mist. For information on environmental and health risks, respiratory protection, ventilation and individual means of protection, refer to section 8.

For emergency responders: Emergency operators are recommended to wear appropriate personal protective equipment as indicated in section 8.

The vapors are heavier than air and, in case of spills, they can accumulate in closed spaces and in low areas where they can easily ignite. In the event that the situation cannot be fully assessed or if there is a risk of oxygen deficiency, use only an autonomous respirator (Type EN137).

**6.2. Environmental precautions**

Prevent penetration into soil / subsoil. Prevent runoff into surface water or sewerage. In the event of a gas leak or penetration into water courses, soil or sewage system, inform the responsible authorities. Suitable material for collection: absorbent, organic, sand.

**6.3. Methods and material for containment and cleaning up**

Provide adequate ventilation. Use non-sparking tools and equipment. Wash with plenty of water. Limit and collect any spills with non-combustible absorbent material such as sand, earth, vermiculite, diatomite and dispose of the product through an authorized disposal company.

**CERAMIC PROTECTION****6.4. Reference to other sections**

See also paragraphs 8 and 13.

**SECTION 7. Handling and storage****7.1. Precautions for safe handling**

Pressurized container. Do not pierce or burn even after use. Do not use in the presence of open flames or other sources of ignition. Not smoking. Avoid the accumulation of electrostatic charges. Do not spray on flame or incandescent bodies. Do not spray on hot surfaces.

USE ONLY IN A WELL-VENTILATED PLACE.

Vapors may ignite with explosion. It is therefore necessary to prevent their accumulation by keeping doors and windows open and ensuring good cross ventilation. The vapors are heavier than air and can accumulate on the ground and, without adequate ventilation, if ignited, they can ignite even at a distance with risk of backfire. Protect from sunlight. Do not expose to temperatures above 50 ° C / 122 ° F. Avoid contact with skin and eyes, inhalation of vapors and mists.

Environmental protection measures: Minimize the release of the mixture into the air and the surrounding environment, avoiding accidental spills and keeping the product stored away from sewage.

Occupational hygiene precautions: Contaminated clothing must be replaced before entering the dining areas. During work do not eat, drink or smoke in the work areas. Wash your hands after using the product. See also paragraph 8 for the recommended protective devices.

**7.2. Conditions for safe storage, including any incompatibilities**

Technical measures and storage conditions: Store in a well-ventilated place away from direct sunlight. Recommended storage temperature: from 15 ° C to 30 ° C. Keep sparks, heat sources and any source of combustion away from open flames. Keep the containers upright and safe, avoiding the possibility of falls or knocks. Do not store the product in corridors and stairs. Store the product only in original and closed packaging, do not pierce or open the aerosols containers. Keep away from food, drink and feed.

Incompatible materials: DO NOT store together with oxidizing, self-igniting, self-heating, organic peroxides, oxidizing agents, pyrophoric liquids and solids, explosives. See also paragraph 10 below. Indication for rooms: Fresh and adequately ventilated. Avoid the accumulation of electrostatic charges.

Storage Classes: Refer to Section 15.1 for Storage Classes / Limits (Seveso III).

Storage class TRGS 510 (Germany):

2B

**7.3. Specific end use(s)**

Refer to the identified uses referred to in subsection 1.2.

**SECTION 8. Exposure controls/personal protection****8.1. Control parameters**

Regulatory References:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie

**CERAMIC PROTECTION**

SWE	Sverige	w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1) EH40/2005 Workplace exposure limits (Fourth Edition 2020) Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. ACGIH 2021
GBR	United Kingdom	
EU	OEL EU	
	TLV-ACGIH	

**ACETONE**
**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	1200	500	2400 (C)	1000 (C)	
MAK	DEU	1200	500	2400	1000	
TLV	DNK	600	250			E
VLA	ESP	1210	500			
VLEP	FRA	1210	500	2420	1000	
VLEP	ITA	1210	500			
TLV	NOR	295	125			
VLE	PRT	1210	500			
NDS/NDSch	POL	600		1800		
NGV/KGV	SWE	600	250	1200 (C)	500 (C)	
WEL	GBR	1210	500	3620	1500	
OEL	EU	1210	500			
TLV-ACGIH			250		500	

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	10,6	mg/l
Normal value in marine water	1,06	mg/l
Normal value for fresh water sediment	30,4	mg/kg
Normal value for marine water sediment	3,04	mg/kg
Normal value for the terrestrial compartment	29,5	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			62 mg/kg bw/d					
Inhalation			200 mg/m3		2420 mg/m3		1210 mg/m3	
Skin			62 mg/kg bw/d				186 mg/kg bw/d	

**BUTANE**
**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	2400	1000	9600	4000	
MAK	DEU	2400	1000	9600	4000	

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TLV	DNK	1200	500		
VLA	ESP		1000		Gases
VLEP	FRA	1900	800		
TLV	NOR	600	250		
NDS/NDSch	POL	1900		3000	
WEL	GBR	1450	600	1810	750
WEL	GBR		4		RESP
TLV-ACGIH				1000	

**PROPANE****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	1800	1000	7200	4000	
MAK	DEU	1800	1000	7200	4000	
TLV	DNK	1800	1000			
VLA	ESP		1000			
TLV	NOR	900	500			
NDS/NDSch	POL	1800				

**ISOBUTANE****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	2400	1000	9600	4000	
MAK	DEU	2400	1000	9600	4000	
TLV	DNK	1200	500			
VLA	ESP		1000			Gases
VLEP	FRA	1900	800			
TLV	NOR	600	250			
NDS/NDSch	POL	1900		3000		
WEL	GBR	1450	600	1810	750	
WEL	GBR		4			RESP
TLV-ACGIH					1000	

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

**8.2. Exposure controls**

**CERAMIC PROTECTION****Appropriate technical checks:**

Properly ventilate the rooms where the product is stored and / or handled. Use only with adequate ventilation. Localized ventilation may be necessary for some operations. Minimize workplace exposure concentrations. Use technical equipment to keep concentrations in the air below the exposure limit or guidelines.

**GENERAL PROTECTIVE AND LABOR HYGIENE RULES**

Keep away from food, drink and fodder. Wash hands before breaks or after work. Avoid contact with eyes.

**Hand protection:**

During manipulation, protect your hands with gloves resistant to Type En374 chemicals (PVC, PE, neoprene, nitrile, viton, not natural rubber). Gloves with protection factor 6 are recommended: permeation time > 480min, thickness min 0.3mm. Change the gloves that may be used in the presence of signs of wear, cracks or internal contamination.

**SKIN PROTECTION:**

Wear clean antistatic clothing with consistent coverage and antistatic safety footwear for professional use of category S2 (Type EN20345). In the event of prolonged contact, use protective clothing impervious to this material: gowns, aprons or complete coveralls (Type EN 340-EN13034).

**EYE PROTECTION**

Use safety glasses with side protection EN166. If exposure to vapors causes discomfort to the eyes, use full face gas masks.

**RESPIRATORY PROTECTION:**

Concentration levels in the air should be kept below the exposure limits. Respiratory protection is required when the concentration in the air exceeds the TLV: use EN149 FFP2 approved masks or Type EN140 half-face respirators with Filter Type EN143: A2 or full-face respirators EN136 (Filter Type EN143: A2).

**THERMAL RISKS**

Aerosol containers, if overheated, deform, burst and can be thrown a considerable distance.

**ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

**SECTION 9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Properties	Value	Information
Appearance	aerosol	
Colour	white	
Odour	characteristic	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	flammable gas	
Lower explosive limit	1,8 % (v/v)	
Upper explosive limit	15 % (v/v)	
Flash point	< 0 °C	
Auto-ignition temperature	> 300 °C	
Decomposition temperature	not available	
pH	not applicable	
Kinematic viscosity	not available	
Solubility	not available	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	3-5 bar	
Density and/or relative density	0,66	



**CERAMIC PROTECTION**

Relative vapour density 2  
Particle characteristics not applicable

**9.2. Other information****9.2.1. Information with regard to physical hazard classes**

Information not available

**9.2.2. Other safety characteristics**

Information not available

**SECTION 10. Stability and reactivity****10.1. Reactivity**

Stable under normal conditions. Under normal conditions of use there are no particular dangers of reaction with other substances.

ACETONE

Decomposes under the effect of heat.

**10.2. Chemical stability**

Pressurized container. Do not pierce or burn even after use. Protect from sunlight. Do not expose to temperatures above 50 ° C / 122 ° F. Refer to the instructions in section 7 for handling and storage.

**10.3. Possibility of hazardous reactions**

Under normal conditions of use and storage, hazardous reactions are not foreseeable. If released, the vapors can form explosive mixtures with air. If overheated aerosol containers can deform, burst and be projected at a considerable distance.

ACETONE

Risk of explosion on contact with: bromine trifluoride, fluorine dioxide, hydrogen peroxide, nitrosyl chloride, 2-methyl-1,3 butadiene, nitromethane, nitrosyl perchlorate. May react dangerously with: potassium tert-butoxide, alkaline hydroxides, bromine, bromoform, isoprene, sodium, sulphur dioxide, chromium trioxide, chromyl chloride, nitric acid, chloroform, peroxy monosulphuric acid, phosphoryl oxychloride, chromosulphuric acid, fluorine, strong oxidising agents, strong reducing agents. Develops flammable gas on contact with: nitrosyl perchlorate.

**10.4. Conditions to avoid**

Avoid exposure to sunlight, avoid overheating and temperatures > 50 ° C. Keep away from oxidizing agents.

ACETONE

Avoid exposure to: sources of heat, naked flames.

**10.5. Incompatible materials**

**CERAMIC PROTECTION**

Avoid contact with combustive material: the product could catch fire. Avoid contact with strong reducing and oxidizing agents, strong acids and bases, high temperature materials.

**ACETONE**

Incompatible with: acids, oxidising substances.

**10.6. Hazardous decomposition products**

It does not decompose under normal conditions. For thermal decomposition refer to section 5.

**ACETONE**

May develop: ketenes, irritant substances.

**SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

**CERAMIC PROTECTION**

ATE (Inhalation) of the mixture:  
ATE (Oral) of the mixture:  
ATE (Dermal) of the mixture:

Not classified (no significant component)  
Not classified (no significant component)  
Not classified (no significant component)

**ACETONE**

LD50 (Dermal):  
LD50 (Oral):  
LC50 (Inhalation vapours):

> 15688 mg/kg Rabbit  
5800 mg/kg Rat  
76 mg/l/4h Rat

**SKIN CORROSION / IRRITATION**

Repeated exposure may cause skin dryness or cracking.

**SERIOUS EYE DAMAGE / IRRITATION**

Causes serious eye irritation

**RESPIRATORY OR SKIN SENSITISATION**

Does not meet the classification criteria for this hazard class

**GERM CELL MUTAGENICITY**

Does not meet the classification criteria for this hazard class

**CARCINOGENICITY**

Does not meet the classification criteria for this hazard class

**REPRODUCTIVE TOXICITY**

Does not meet the classification criteria for this hazard class

**STOT - SINGLE EXPOSURE**



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May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

**11.2. Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

**SECTION 12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

**12.1. Toxicity**

## ACETONE

LC50 - for Fish 8120 mg/l/96h

EC50 - for Crustacea 6094 mg/l/48h

**12.2. Persistence and degradability**

## BUTANE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

## PROPANE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

## ACETONE

Rapidly degradable

## ISOBUTANE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

**12.3. Bioaccumulative potential**

## BUTANE

Partition coefficient: n-octanol/water 1,09

**CERAMIC PROTECTION****PROPANE**

Partition coefficient: n-octanol/water 1,09

**ACETONE**

Partition coefficient: n-octanol/water -0,23

BCF 3

**ISOBUTANE**

Partition coefficient: n-octanol/water 1,09

**12.4. Mobility in soil**

Information not available

**12.5. Results of PBT and vPvB assessment**On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.**12.6. Endocrine disrupting properties**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

**12.7. Other adverse effects**

Information not available

**SECTION 13. Disposal considerations****13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

**CONTAMINATED PACKAGING**

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**SECTION 14. Transport information****14.1. UN number or ID number**

ADR / RID, IMDG, IATA: 1950

**14.2. UN proper shipping name**

**CERAMIC PROTECTION**

ADR / RID: AEROSOLS  
IMDG: AEROSOLS  
IATA: AEROSOLS, FLAMMABLE

**14.3. Transport hazard class(es)**

ADR / RID: Class: 2 Label: 2.1  
IMDG: Class: 2 Label: 2.1  
IATA: Class: 2 Label: 2.1


**14.4. Packing group**

ADR / RID, IMDG, IATA: -

**14.5. Environmental hazards**

ADR / RID: NO  
IMDG: NO  
IATA: NO

**14.6. Special precautions for user**

ADR / RID:	HIN - Kemler: --	Limited Quantities: 1 L	Tunnel restriction code: (D)
	Special provision: -		
IMDG:	EMS: F-D, S-U	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 150 Kg	Packaging instructions: 203
	Pass.:	Maximum quantity: 75 Kg	Packaging instructions: 203
	Special provision:	A145, A167, A802	

**14.7. Maritime transport in bulk according to IMO instruments**

Information not relevant

**SECTION 15. Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**CERAMIC PROTECTION**

Seveso Category - Directive 2012/18/EU: P3a

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 40

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Regulated explosives precursor

The acquisition, introduction, possession or use of that regulated explosives precursor by members of the general public is subject to reporting obligations as set out in Article 9.

All suspicious transactions and significant disappearances and thefts must be reported to the relevant national contact point.

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 1: Low hazard to waters

**15.2. Chemical safety assessment**

A chemical safety assessment has been performed for the following contained substances



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ACETONE

BUTANE

PROPANE

ISOBUTANE

## SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Gas 1A	Flammable gas, category 1A
Aerosol 1	Aerosol, category 1
Aerosol 3	Aerosol, category 3
Flam. Liq. 2	Flammable liquid, category 2
Press. Gas (Liq.)	Liquefied gas
Eye Irrit. 2	Eye irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated.
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

Use descriptor system:

PC	24	Lubricants, greases, release products
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## LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation



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- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

**GENERAL BIBLIOGRAPHY**

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
  4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
  12. Regulation (EU) 2016/1179 (IX Atp. CLP)
  13. Regulation (EU) 2017/776 (X Atp. CLP)
  14. Regulation (EU) 2018/669 (XI Atp. CLP)
  15. Regulation (EU) 2019/521 (XII Atp. CLP)
  16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
  17. Regulation (EU) 2019/1148
  18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
  19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
  20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
  21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
  22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

This document has been prepared by an SDS technician who has received appropriate training.

**CALCULATION METHODS FOR CLASSIFICATION**

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

**Changes to previous review:**

The following sections were modified:



**TRAFIMET GROUP SPA A SOCIO UNICO**

Revision nr. 2

Dated 30/10/2022

Printed on 30/10/2022

Page n. 18/18

Replaced revision:1 (Printed on: 05/08/2020)

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