



TRAFIMET GROUP SPA A SOCIO UNICO

Revision nr. 2

Dated 28/10/2022

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Replaced revision:1 (Printed on: 13/06/2020)

ZINCO SPRAY

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 **ZINCO SPRAY**
Chemical name and synonym **UT1000069**
UFI : **7X00-H0FA-0000-XF28**

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

Intended use **Spray paint (aerosol).**

Identified Uses	Industrial	Professional	Consumer
USE	✓	✓	-
Uses Advised Against			

The relevant uses are listed above. No other uses are recommended.

1.3. Details of the supplier of the safety data sheet

Name **TRAFIMET GROUP SPA A SOCIO UNICO**
Full address **via del Lavoro, 8**
District and Country **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.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, chronic toxicity,	H411	Toxic to aquatic life with long lasting effects.

ZINCO SPRAY

category 2

2.2. Label elements

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

Hazard pictograms:



Signal words:

Danger

Hazard statements:

H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements:

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing fumes / gases / mist / vapors / aerosols.
P271	Use only outdoors or in a well-ventilated area.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.
P501	Dispose of the product / container in accordance with local regulations.

Contains: Hydrocarbons, C6, isoalkanes, <5% n-hexane

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%.

Other dangers:

Aerosol containers exposed to temperatures above 50 ° C can deform and burst and be thrown a considerable distance.

The vapors are heavier than air and can be localized in confined spaces, spread to the ground and can form flammable and explosive mixtures with the air in case of ignition even from a distance, with a consequent risk of fire.

The aerosol contains an asphyxiating gas, avoid the accumulation of vapors in large quantities in confined environments as it can cause asphyxiation due to lack of oxygen. Exposure to high concentrations of vapors, particularly in confined and inadequately ventilated areas, can cause irritation to the respiratory tract, nausea, malaise and dizziness

ZINCO SPRAY
SECTION 3. Composition/information on ingredients
3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
Hydrocarbons, C6, isoalkanes, <5% n-hexane		
INDEX -	$25 \leq x < 30$	Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 2 H411, Classification note according to Annex VI to the CLP Regulation: C
EC 931-254-9		
CAS -		
REACH Reg. 01-2119484651-34		
BUTANE		
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		
PROPANE		
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		
ISOBUTANE		
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		
xylene (reaction mass of ethylbenzene, m-xylene and p-xylene)		
INDEX -	$7 \leq x < 10$	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 3 H412, Classification note according to Annex VI to the CLP Regulation: C STA Dermal: 1100 mg/kg, STA Inhalation mists/powders: 1,5 mg/l
EC 905-562-9		
CAS -		
REACH Reg. 01-2119555267-33		
ZINC POWDER (STABILIZED)		
INDEX 030-001-01-9	$5 \leq x < 7$	Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 231-175-3		

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CAS 7440-66-6

REACH Reg. 01-2119467174-37

n-BUTYL ACETATE

INDEX 607-025-00-1

 $0,5 \leq x < 1$

Flam. Liq. 3 H226, STOT SE 3 H336, EUH066

EC 204-658-1

CAS 123-86-4

REACH Reg. 01-2119485493-29

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: 44,00 %

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

Causes skin irritation. Causes serious eye irritation. It can cause drowsiness or dizziness.

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 (CO₂), 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

**ZINCO SPRAY**

Do not inhale the gases produced by the explosion and combustion.

Combustion generates a complex mixture of gases, including CO (carbon monoxide), CO₂ (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: Evacuate the surrounding areas and prevent the entry of external and unprotected personnel. Notify the emergency teams.

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

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

In the event that the situation cannot be fully assessed or if there is a risk of oxygen deficiency, use only a self-contained 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.

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.

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ZINCO SPRAY**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 w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	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.
	TLV-ACGIH	ACGIH 2021

Hydrocarbons, C6, isoalkanes, <5% n-hexane**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	DEU	1800	500	3600	1000	
TLV	DNK	700	200			
VLA	ESP	1790	500	3580	1000	
VLEP	FRA	1800	500			
TLV	NOR	1050	250			



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NGV/KGV	SWE	700	200	1100 (C)	300 (C)
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TLV-ACGIH		1762	500	3525	1000
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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				1301 mg/kg bw/d				
Inhalation				1131 mg/m3				5306 mg/m3
Skin				1377 mg/kg bw/d				13964 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	
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



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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	

xylene (reaction mass of ethylbenzene, m-xylene and p-xylene)

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	440	100	880	200	SKIN
MAK	DEU	440	100	880	200	SKIN
TLV	DNK	109	25			SKIN E
VLA	ESP	221	50	442	100	SKIN
VLEP	FRA	221	50	442	100	SKIN
VLEP	ITA	221	50	442	100	SKIN
TLV	NOR	108	25			SKIN
VLE	PRT	221	50	442	100	SKIN
NDS/NDSch	POL	100		200		SKIN
NGV/KGV	SWE	221	50	442	100	SKIN
WEL	GBR	220	50	441	100	SKIN
OEL	EU	221	50	442	100	SKIN
TLV-ACGIH		434	100	651	150	

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,327	mg/l
Normal value in marine water	0,327	mg/l
Normal value for fresh water sediment	12,46	mg/kg
Normal value for marine water sediment	12,46	mg/kg
Normal value for water, intermittent release	0,327	mg/l
Normal value of STP microorganisms	6,58	mg/l
Normal value for the terrestrial compartment	2,31	mg/kg
Normal value for the atmosphere	NPI	

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		NPI		12,5 mg/kg bw/d				
Inhalation	260 mg/m3	260 mg/m3	65,3 mg/m3	65,3 mg/m3	442 mg/m3	442 mg/m3	221 mg/m3	221 mg/m3
Skin			NPI	125 mg/kg bw/d			NPI	212 mg/kg bw/d

ZINC POWDER (STABILIZED)

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks /
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Observations				
		mg/m3	ppm	
MAK	DEU	2		4
MAK	DEU	0,1		0,4

n-BUTYL ACETATE

Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
AGW	DEU	300	62	600 (C) 124 (C)
TLV	DNK	710	150	
VLA	ESP	724	150	965 200
VLEP	FRA	710	150	940 200
TLV	NOR		75	
NDS/NDSch	POL	240		720
NGV/KGV	SWE	500	100	700 (C) 150 (C)
WEL	GBR	724	150	966 200
OEL	EU	241	50	723 150
TLV-ACGIH			50	150

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,18	mg/l
Normal value in marine water	0,018	mg/l
Normal value for fresh water sediment	0,981	mg/kg
Normal value for marine water sediment	0,098	mg/kg
Normal value for water, intermittent release	0,36	mg/l
Normal value of STP microorganisms	35,6	mg/l
Normal value for the terrestrial compartment	0,09	mg/kg
Normal value for the atmosphere	NPI	

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	NPI	6 mg/kg bw/d	NPI	6 mg/kg bw/d				
Inhalation	300 mg/m3	300 mg/m3	35,7 mg/m3	35,7 mg/m3	600 mg/m3	600 mg/m3	300 mg/m3	300 mg/m3
Skin					NPI	11 mg/kg bw/d	NPI	11 mg/kg bw/d

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



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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.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Generally not necessary. For prolonged use or hypersensitivity it is recommended to protect your hands with gloves resistant to chemical products Type EN374 (PVC, PE, neoprene, Nitrile, Viton, not natural rubber). Gloves with protection factor 6 are recommended: breakthrough time > 480min, min thickness 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

Generally not necessary for normal use. Air concentration levels should be kept below exposure limits. When the concentration in the air exceeds the TLV, respiratory protection is required: use EN149 FFP2 approved masks or EN140 semi-face respirators with Filter Type EN143: A2 or full face respirators EN136 (Filter Type EN143: A2).

ENVIRONMENTAL EXPOSURE CONTROLS

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

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

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

Properties	Value	Information
Appearance	aerosol	
Colour	colourless	
Odour	characteristic of solvent	
Melting point / freezing point	not available	
Initial boiling point	> -42 °C	
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	insoluble in water	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	0,66	
Relative vapour density	>2	



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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

VOC (Directive 2010/75/EU) 81,80 % - 541,50 g/litre

VOC (volatile carbon) 72,99 % - 483,15 g/litre

Explosive properties not explosive

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.

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.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Avoid contact with strong reducing agents and oxidants, strong acids and bases, materials at high temperatures.

10.6. Hazardous decomposition products

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

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



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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

n-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

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

n-BUTYL ACETATE

In humans, the substance's vapours cause irritation of the eyes and nose. In the event of repeated exposure, skin irritation, dermatitis (dryness and cracking of the skin) and keratitis appear.

Interactive effects

n-BUTYL ACETATE

A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture:	> 5 mg/l
ATE (Oral) of the mixture:	Not classified (no significant component)
ATE (Dermal) of the mixture:	>2000 mg/kg

Hydrocarbons, C6, isoalkanes, <5% n-hexane

LD50 (Dermal):	> 3000 mg/kg Rabbit - (OECD TG 402)
LD50 (Oral):	> 5000 mg/kg Rat - (OECD TG 401)
LC50 (Inhalation vapours):	> 20 mg/l/4h Rat - (OECD TG 403)

xylene (reaction mass of ethylbenzene, m-xylene and p-xylene)

LD50 (Dermal):	12126 mg/kg Rabbit
STA (Dermal):	1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP

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LD50 (Oral):
LC50 (Inhalation vapours):
STA (Inhalation mists/powders):

(figure used for calculation of the acute toxicity estimate of the mixture)

3523 mg/kg Rat

27 mg/l/4h Rat

1,5 mg/l

(figure used for calculation of the acute toxicity estimate of the mixture)

ZINC POWDER (STABILIZED)

LD50 (Oral):
LC50 (Inhalation mists/powders):

> 2000 mg/kg Rat

> 5,4 mg/l/4h Rat

n-BUTYL ACETATE**Further information:**

Vapor concentrations above the recommended exposure levels are irritating to the eyes and respiratory tract, can cause headache and dizziness, have an anesthetic effect and cause other central nervous system effects. Repeated and / or prolonged skin contact with low viscosity materials can degrease the skin with possible development of irritation and dermatitis. Small amounts of liquid, aspirated into the lungs in case of ingestion or vomiting, can cause chemical pneumonia or pulmonary edema.

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

> 5000 mg/kg Rabbit

> 6400 mg/kg Rat

21,1 mg/l/4h Rat

Hydrocarbons, C6, isoalkanes, <5% n-hexane**Further information:**

Vapor concentrations above the recommended exposure levels are irritating to the eyes and respiratory tract, can cause headache and dizziness, have an anesthetic effect and cause other effects on the central nervous system. Repeated and / or prolonged contact of the skin with low viscosity materials can degrease the skin with possible development of irritation and dermatitis. Small amounts of fluid sucked into the lungs in case of ingestion or vomiting can cause chemical pneumonia or pulmonary edema.

SKIN CORROSION / IRRITATION

Causes skin irritation

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

xylene (reaction mass of ethylbenzene, m-xylene and p-xylene)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC).

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Excluded because the aerosol does not allow the accumulation of a significant amount of product in the mouth

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

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

Use according to good working practices, avoiding to disperse the product in the environment.

The product is classified: Aquatic Chronic 2 - H411.

12.1. Toxicity

Hydrocarbons, C6, isoalkanes, <5% n-hexane

ZINCO SPRAY

LC50 - for Fish	> 1 mg/l/96h <i>Oryzias latipes</i>
EC50 - for Crustacea	3,87 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	55 mg/l/72h <i>Pseudokirchneriella subcapitata</i>
Chronic NOEC for Algae / Aquatic Plants	30 mg/l <i>Pseudokirchneriella subcapitata</i>

n-BUTYL ACETATE

LC50 - for Fish	18 mg/l/96h <i>Pimephales promelas</i>
-----------------	--

ZINC POWDER (STABILIZED)

LC50 - for Fish	7,1 mg/l/96h <i>Nothobranchius guentheri</i>
EC50 - for Crustacea	2,8 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	0,015 mg/l/72h <i>Pseudokirchneriella subcapitata</i>

xylene (reaction mass of ethylbenzene, m-xylene and p-xylene)

LC50 - for Fish	2,6 mg/l/96h <i>Salmo gairdneri</i> - READ ACROSS (p-xylene)
-----------------	--

12.2. Persistence and degradability

The paraffinic hydrocarbons fraction may be considered biodegradable in water and in air. They distribute mostly in the air. The small non biodegradable amount which spreads into water tends to accumulate in fish.

BUTANE

Solubility in water	0,1 - 100 mg/l
---------------------	----------------

Rapidly degradable
PROPANE

Solubility in water	0,1 - 100 mg/l
---------------------	----------------

Rapidly degradable
ISOBUTANE

Solubility in water	0,1 - 100 mg/l
---------------------	----------------

Rapidly degradable
Hydrocarbons, C6, isoalkanes, <5% n-hexane

Rapidly degradable
n-BUTYL ACETATE

Solubility in water	1000 - 10000 mg/l
---------------------	-------------------

ZINC POWDER (STABILIZED)

Solubility in water	0,1 - 100 mg/l
---------------------	----------------

Degradability: information not available

xylene (reaction mass of ethylbenzene, m-xylene and p-xylene)

Solubility in water	100 - 1000 mg/l
---------------------	-----------------

Rapidly degradable

12.3. Bioaccumulative potential
BUTANE

Partition coefficient: n-octanol/water	1,09
--	------

PROPANE

ZINCO SPRAY

Partition coefficient: n-octanol/water	1,09
ISOBUTANE	
Partition coefficient: n-octanol/water	1,09
Hydrocarbons, C6, isoalkanes, <5% n-hexane	
BCF	501187
n-BUTYL ACETATE	
Partition coefficient: n-octanol/water	2,3
BCF	15,3
xylene (reaction mass of ethylbenzene, m-xylene and p-xylene)	
Partition coefficient: n-octanol/water	3,12
BCF	25,9

12.4. Mobility in soil

n-BUTYL ACETATE	
Partition coefficient: soil/water	< 3
xylene (reaction mass of ethylbenzene, m-xylene and p-xylene)	
Partition coefficient: soil/water	2,73

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



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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

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: Environmentally Hazardous
IMDG: Marine Pollutant
IATA: NO



For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

14.6. Special precautions for user

ADR / RID: HIN - Kemler: --
Special provision: -
IMDG: EMS: F-D, S-U
IATA: Cargo:

Limited
Quantities: 1
L

Tunnel
restriction
code: (D)

Limited
Quantities: 1
L
Maximum
quantity: 150
Kg

Packaging
instructions:
203



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Pass.:

Maximum
quantity: 75
Kg
A145, A167,
A802Packaging
instructions:
203

Special provision:

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**

Seveso Category - Directive 2012/18/EU: P3a-E2

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

Point 40

Contained substance

Point 75

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

not applicable

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



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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 2: Hazard to waters

15.2. Chemical safety assessment

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

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
Flam. Liq. 3	Flammable liquid, category 3
Press. Gas (Liq.)	Liquefied gas
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.



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H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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
- 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)

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- 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:

01 / 02 / 03 / 08 / 09 / 11 / 12 / 15 / 16.