SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 453/2010)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name: NZA BRILLANT - AEROSOL

Product code: 706A

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

Anticorrosion coating Professional use

1.3. Details of the supplier of the safety data sheet

VICTORIA LUB PTY LTD 24, 29-39 KIRKHAM RD WEST KEYSBOROUGH VIC 3173

TEL: +613 9701 5373 info@viclube.com.au

www.viclube.com.au

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Flammable aerosol, Category 1 (Aerosol 1, H222 - H229).

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Eye irritation, Category 2 (Eye Irrit. 2, H319).

Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H336).

Hazardous to the aquatic environment - Acute hazard, Category 1 (Aquatic Acute 1, H400).

Hazardous to the aquatic environment - Chronic hazard, Category 1 (Aquatic Chronic 1, H410).

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Extremely flammable (F+, R 12).

Skin irritation (Xi, R 38).

Eye irritation (Xi, R 36).

Vapours may cause drowsiness and dizziness (R 67).

Aquatic environmental hazard, chronic toxicity: very toxic (N, R 50/53).

2.2. Label elements

Mixture for aerosol application.

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :







GHS07

309 GHS02

Signal Word : DANGER

Product identifiers:

EC 931-254-9 HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

EC 200-662-2 ACETONE

Hazard statements :

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.
H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements - General:

P102 Keep out of reach of children.

Precautionary statements - Prevention:

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.

P260 Do not breathe spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response:

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P337 + P313 If eye irritation persists: Get medical advice/attention.

Precautionary statements - Storage:

P410 + P412 Protect from sunlight. Do no expose to temperatures exceeding 50 oC/122oF.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European

CHemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition:

Identification	(EC) 1272/2008	67/548/EEC	Note	%
EC: 931-254-9	GHS07, GHS09, GHS08,	Xn,N,F		25 <= x % < 50
REACH:	GHS02	Xn;R65		
01-2119484651-34	Dgr	Xi;R38		
	Flam. Liq. 2, H225	N;R51/53		
HYDROCARBONS, C6,	Asp. Tox. 1, H304	F;R11		
ISOALKANES, <5%	Skin Irrit. 2, H315	R67		
N-HEXANE	STOT SE 3, H336			
	Aquatic Chronic 2,			
	H411			
CAS: 67-64-1	GHS07, GHS02	Xi,F	[1]	10 <= x % < 25
EC: 200-662-2	Dgr	Xi;R36		
REACH:	Flam. Liq. 2, H225	F;R11		
01-2119471330-49	Eye Irrit. 2, H319	R66-R67		
	STOT SE 3, H336			
ACETONE	EUH:066			
CAS: 811-97-2	GHS04		[1]	10 <= x % < 25
EC: 212-377-0	Wng			
REACH:	Press. Gas, H280			
01-2119459374-33				
1,1,1,2-TETRAFLUOROE				
THANE				
CAS: 90989-38-1	GHS07, GHS08, GHS02	Xn	J	2.5 <= x % < 10
EC: 292-694-9	Dgr	Xn;R65-R48/20-R20/21		
REACH:	Flam. Liq. 3, H226	Xi;R36/37/38		
01-2119486136-34	Asp. Tox. 1, H304	R10		
	Acute Tox. 4, H312			
AROMATIC	Skin Irrit. 2, H315			
HYDROCARBONS, C8	Eye Irrit. 2, H319			
	Acute Tox. 4, H332			
	STOT SE 3, H335			
	STOT RE 2, H373			

CAS: 124-38-9 EC: 204-696-9	GHS04 Wng		[1]	2.5 <= x % < 10
CARBON DIOXIDE	Press. Gas, H281			
INDEX: 013-002-00-1	GHS02	F	Т	2.5 <= x % < 10
CAS: 7429-90-5	Dgr	F;R11	[1]	2.6 1 7 76 1 16
EC: 231-072-3	Water-react. 2, H261	R15		
REACH:	Flam. Sol. 1, H228			
01-2119529243-45	·			
ALUMINIUM POWDER				
(STABILISED)				
CAS: 7440-66-6	GHS09	N		2.5 <= x % < 10
EC: 231-175-3	Wng	N;R50/53		
REACH:	Aquatic Acute 1, H400			
01-2119467174-37	M Acute = 10			
	Aquatic Chronic 1,			
ZINC POWDER - ZINC	H410			
DUST (STABILISED)	M Chronic = 10			
EC: 918-481-9	GHS08	Xn		0 <= x % < 2.5
REACH:	Dgr	Xn;R65		
01-2119457273-39	Asp. Tox. 1, H304 EUH:066	R66		
HYDROCARBONS,				
C10-C13, N-ALKANES,				
ISOALKANES, CYCLICS,				
< 2% AROMATICS				
CAS: 1314-13-2	GHS09	N	[1]	0 <= x % < 2.5
EC: 215-222-5	Wng	N;R50/53		
REACH:	Aquatic Acute 1, H400			
01-2119463881-32	M Acute = 1			
ZINO OVIDE	Aquatic Chronic 1,			
ZINC OXIDE	H410			
	M Chronic = 1			

Information on ingredients:

[1] Substance for which maximum workplace exposure limits are available.

Note J: The carcinogen or mutagen classification does not apply because the substance contains less than 0.1 % w/w of benzene (EINECS 200-753-7).

CAS: 100-41-4 EC: 202-849-4	ETHYLBENZENE
CAS: 1330-20-7 EC: 215-535-7	XYLENE

SECTION 4: FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation:

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at $\,\,$ rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

Consult a physician in case of disorder.

In the event of splashes or contact with eyes:

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin:

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

Not to use solvents or thinners.

In the event of swallowing:

Do not give the patient anything orally.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention immediately, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

No data available

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

No data available.

SECTION 5: FIREFIGHTING MEASURES

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media

Keep packages near the fire cool, to prevent pressurised containers from bursting.

Suitable methods of extinction

In the event of a fire, use:

- powder
- dry sand

Prevent the effluent of fire-fighting measures from entering drains or waterways.

Unsuitable methods of extinction

In the event of a fire, do not use:

- water jet
- water

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed:

- carbon monoxide (CO)
- carbon dioxide (CO2)
- oxides of metal
- various hydrocarbons
- aldehydes

5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

Avoid inhaling the vapors.

Avoid any contact with the skin and eyes.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Use drums to dispose of collected waste in compliance with current regulations (see section 13).

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7: HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Remove contaminated clothing and protective equipment before entering eating areas.

Avoid contact with skin, eyes and clothings.

Do not breathe vapours, fumes and fog.

Fire prevention:

Handle in well-ventilated areas.

Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Do not spray on a naked flame or any incandescent material.

Do not pierce or burn, even after use.

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

Recommended equipment and procedures:

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Do not breathe in aerosols.

Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.

Provide vapor extraction at the emission source and also general ventilation of the premises.

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

In all cases, recover emissions at source.

Avoid skin and eye contact with this mixture.

Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

Never open the packages under pressure.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep out of reach of children.

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Keep the container away from heat, bad weather, dampness and freezing.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits:

- European Union (2009/161/EU, 2006/15/EC, 2000/39/EC, 98/24/EC)

CAS	VME-mg/m3:	VME-ppm:	VLE-mg/m3:	VLE-ppm:	Notes :
67-64-1	1210	500	-	-	-
124-38-9	9000	5000	-	-	-

1330-20-7	221	50	442	100	Peau	
100-41-4	442	100	884	200	Peau	
	LV (American Confere		, , ,			
CAS	TWA:	STEL:	Ceiling :	Definition :	Criteria :	
1330-20-7	100 ppm	150 ppm	-	-	-	
100-41-4	100 ppm	125 ppm	-	-	-	
67-64-1	1210 mg/m3	2420 mg/m3	-	-	-	
811-97-2	1000 ppm	-	-	-	-	
124-38-9	5000 ppm	-	-	-	-	
7429-90-5	10 mg/m3	-	-	-	-	
1314-13-2	5 mg/m3	-	-	-	-	
- Germany	- AGW (BAuA - TRGS	900, 21/06/2010) :				
CAS	VME :	VME :	Excess	Notes		
67-64-1	500 ml/m3	1200 mg/m3	2(I)	DFG		
811-97-2	1000 ml/m3	4200 mg/m3	8(II)	DFG, Y		
124-38-9	5000 ml/m3	9100 mg/m3	2(II)	DFG, EU		
1330-20-7	100 ml/m3	440 mg/m3	2(II)	DFG, H		
100-41-4	100 ml/m3	440 mg/m3	2(I)	EU, H		
- France (II	NRS - ED984 :2008) :		*			
CAS	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes :	TMP No:
67-64-1	500	1210	1000	2420	-	84
124-38-9	5000	9000	-	-	-	-
7429-90-5	-	10	-	-	-	-
1314-13-2	-	5	-	-	-	-
1330-20-7	50	221	100	442	*	4 Bis, 84, *
100-41-4	20	88.4	100	442	*	84
- Switzerlaı	nd (SUVA 2009) :					
CAS	VME-mg/m3 :	VME-ppm:	VLE-mg/m3:	VLE-ppm :	Temps:	RSB:
67-64-1	1200	500	2400	1000	4x15	В
811-97-2	4200	1000	-	-	-	-
124-38-9	9000	5000	_	_	-	-
7429-90-5	3A mg/m3	-	-	-	-	В
1314-13-2	3a	_	3a	-	15 min	-
1330-20-7	435	100	870	200	4x15	RB
100-41-4	435	100	435	100	15 min	R
	(CAS n°110-54-3) : VN				13 111111	10
	. (Workplace exposure			o ppin (Addin)		
CAS CAS	TWA:	STEL :	Ceiling:	Definition :	Criteria :	
67-64-1			Cenning .	Delimition .	Cinteria .	
811-97-2	500 ppm 1000 ppm	1500 ppm	-	-		
124-38-9		15000 nnm			-	
7429-90-5	5000 ppm	15000 ppm	-	-	-	
	2 mg/m3	0040) .	-		-	
- Belgium (Order of 19/05/2009, 2		Coiling	Dofinition :	Critoric :	
		STEL:	Ceiling :	Definition :	Criteria :	
67-64-1	500 ppm	1000 ppm	-	-	-	
124-38-9	5000 ppm	30000 ppm	-	-	-	
7429-90-5	10 mg/m3	-	-	-	-	
1314-13-2	5 mg/m3	10 mg/m3	-	-	-	
- Poland (2			1			
CAS	TWA:	STEL:	Ceiling :	Definition :	Criteria :	
67-64-1	600 mg/m3	1800 mg/m3	-	-	-	
124-38-9	9000 mg/m3	27000 mg/m3	-	-	-	
7429-90-5	2.5 mg/m3	-	-	-	TI	
1314-13-2	5 mg/m3	10 mg/m3	-	-	-	
- Spain (Ins	stituto Nacional de Seg	juridad e Higiene en e	l Trabajo (INSHT), M	layo 2010) :		
CAS	TWA:	STEL:	Ceiling :	Definition :	Criteria :	
67-64-1	500 ppm	-	-	-	-	
124-38-9	5000 ppm	15000 ppm	-	-	-	
7429-90-5	5 mg/m3	-	-	-	-	
		10 mg/m3				

Definition :

Criteria:

Ceiling:

10 mg/m3

1500 mg/m3

45000 mg/m3

STEL:

5 mg/m3

TWA:

Czech Republic (Regulation No. 361/2007) :

800 mg/m3

9000 mg/m3

1314-13-2

CAS

67-64-1

124-38-9

7429-90-5	10 mg/m3	-	-	-	-
1314-13-2	2 mg/m3	5 mg/m3	-	-	-

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

ZINC OXIDE (CAS: 1314-13-2)

Final use: Workers.

Exposure method: Dermal contact.

Potential health effects:

DNEL:

Long term systemic effects.

87 mg/kg de poids corporel/jour

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 5 mg de substance/m3

Final use: Consumers.

Exposure method: Ingestion.

Potential health effects: Long term systemic effects.

DNEL: 0.83 mg/kg de poids corporel/jour

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 87 mg/kg de poids corporel/jour

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 2.5 mg de substance/m3

AROMATIC HYDROCARBONS, C8 (CAS: 90989-38-1)

Final use: Workers.

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 180 mg/kg de poids corporel/jour

Exposure method: Inhalation.

Potential health effects: Short term systemic effects.

DNEL: 289 mg de substance/m3

Exposure method: Inhalation.

Potential health effects: Short term local effects.

DNEL: 289 mg de substance/m3

Exposure method: Inhalation.

Potential health effects:

DNEL:

Long term systemic effects.

77 mg de substance/m3

Exposure method: Inhalation.

Potential health effects: Long term local effects.

DNEL: 77 mg de substance/m3

Final use: Consumers.

Exposure method: Ingestion.

Potential health effects: Long term systemic effects.

DNEL: 1.6 mg/kg de poids corporel/jour

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 108 mg/kg de poids corporel/jour

Exposure method: Inhalation.

Potential health effects: Short term systemic effects.

DNEL: 174 mg de substance/m3

Exposure method: Inhalation.

Potential health effects: Short term local effects.

DNEL: 174 mg de substance/m3

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 14.8 mg de substance/m3

ACETONE (CAS: 67-64-1)

Final use: Workers.

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 186 mg/kg de poids corporel/jour

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 1210 mg de substance/m3

Exposure method: Inhalation.

Potential health effects: Short term local effects.

DNEL: 2420 mg de substance/m3

Final use: Consumers.

Exposure method: Ingestion.

Potential health effects: Long term systemic effects.

DNEL: 62 mg/kg de poids corporel/jour

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 62 mg/kg de poids corporel/jour

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 200 mg de substance/m3

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

Final use: Workers.

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 13964 mg/kg de poids corporel/jour

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 5306 mg de substance/m3

Final use: Consumers.

Exposure method: Ingestion.

Potential health effects: Long term systemic effects.

DNEL: 1301 mg/kg de poids corporel/jour

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 1377 mg/kg de poids corporel/jour

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 1137 mg de substance/m3

Predicted no effect concentration (PNEC):

ZINC OXIDE (CAS: 1314-13-2)

Environmental compartment: Soil.
PNEC: 35.6 mg/kg

Environmental compartment: Fresh water. PNEC : 20.6 μ g/l

Environmental compartment: Sea water.
PNEC: 6.1 µg/l

Environmental compartment: Fresh water sediment.

PNEC: 117 mg/kg

Environmental compartment: Marine sediment. PNEC: 56.5 mg/kg

ACETONE (CAS: 67-64-1)

Environmental compartment: Soil.

PNEC: 29.5 mg/kg

Environmental compartment: Fresh water.
PNEC: 10.6 mg/l

Environmental compartment: Sea water. PNEC: 1.06 mg/l

Environmental compartment: Fresh water sediment.

PNEC: 30.4 mg/kg

Environmental compartment: Marine sediment. PNEC: 3.04 mg/kg

Environmental compartment: Waste water treatment plant.

PNEC: 100 mg/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended:

- PVA (Polyvinyl alcohol)

Recommended properties:

- Impervious gloves in accordance with standard EN374

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing:

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact. Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Avoid breathing vapours.

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

Type of FFP mask:

Wear a disposable half-mask aerosol filter in accordance with standard EN149.

Category

- FFP1

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387:

- AX (Brown)

Particle filter according to standard EN143:

- P (White)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information:

Physical state : Fluid liquid.			
	Spray.		
Important health, safety and environmental info	rmation		
pH:	Not relevant.		
Vanour pressure (50°C) ·	Not relevant		

pH:	Not relevant.
Vapour pressure (50°C):	Not relevant.
Density:	<1
Water solubility:	Insoluble.
Chemical combustion heat :	Not specified.
Inflammation time :	Not specified.
Deflagration density:	Not specified.
Inflammation distance :	Not specified.
Flame height :	Not specified.
Flame duration :	Not specified.

9.2. Other information

Color: gray aluminium

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid:

- heating
- heat
- accumulation of electrostatic charges.
- flames and hot surfaces
- humidity
- sources of ignition

10.5. Incompatible materials

 $\label{eq:Keep away from:} \textbf{Keep away from:}$

- acids
- bases
- oxidising agents
- oxidising material
- water
- halogen compounds

10.6. Hazardous decomposition products

The thermal decomposition may release/form:

- carbon monoxide (CO)
- carbon dioxide (CO2)
- oxides of metal
- various hydrocarbons
- aldehyde

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

Splashes in the eyes may cause irritation and reversible damage

Narcotic effects may occur, such as drowsiness, narcosis, decreased alertness, loss of reflexes, lack of coordination or dizziness.

Effects may also occur in the form of violent headaches or nausea, judgement disorder, giddiness, irritability, fatigue or memory disturbance.

11.1.1. Substances

Acute toxicity:

1,1,1,2-TETRAFLUOROETHANE (CAS: 811-97-2)

Inhalation route : LC50 > 500000 ppm Species : Rat

HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

Oral route: LD50 > 5000 mg/kg

Species: Rat (recommended by the CLP)

OCDE Ligne directrice 401 (Toxicité aiguë par voie orale)

Dermal route: LD50 > 5000 mg/kg

Species: Rabbit (recommended by the CLP)

OCDE Ligne directrice 402 (Toxicité aiguë par voie cutanée)

AROMATIC HYDROCARBONS, C8 (CAS: 90989-38-1)

Oral route: LD50 = 3523 mg/kg

Species : Rat

ACETONE (CAS: 67-64-1)

Oral route : LD50 = 5800 mg/kg

Species: Rat

Dermal route : LD50 > 15800 mg/kg

Species: Rabbit

Inhalation route : LC50 = 76 mg/l

Species: Rat

 ${\tt HYDROCARBONS, C6, ISOALKANES, <5\% \ \, N-HEXANE}$

Oral route: LD50 > 5000 mg/kg

Species: Rat

Dermal route: LD50 > 3000 mg/kg

Species : Rat

OCDE Ligne directrice 402 (Toxicité aiguë par voie cutanée)

Inhalation route: LC50 > 20 mg/l

Species : Rat

OCDE Ligne directrice 403 (Toxicité aiguë par inhalation)

Carcinogenicity:

1,1,1,2-TETRAFLUOROETHANE (CAS: 811-97-2)

Carcinogenicity Test: Negative.

No carcinogenic effect.

11.1.2. Mixture

No toxicological data available for the mixture.

SECTION 12: ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

12.1. Toxicity

12.1.1. Substances

ZINC OXIDE (CAS: 1314-13-2)

Fish toxicity: LC50 = 1.1 mg/l

Species : Oncorhynchus mykiss Duration of exposure : 96 h

Crustacean toxicity: EC50 = 0.83 mg/l

Factor M = 1

Species : Ceriodaphnia dubia Duration of exposure : 48 h

NOEC = 0.4 mg/l

Species : Daphnia magna Duration of exposure : 48 h

Algae toxicity: ECr50 = 0.17 mg/l

Factor M = 1

Species : Selenastrum capricornutum

Duration of exposure: 72 h

NOEC = 0.017 mg/l

Factor M = 1

 $Species: Pseudokirchnerella\ subcapitata$

Duration of exposure: 72 h

ZINC POWDER - ZINC DUST (STABILISED) (CAS: 7440-66-6)

Fish toxicity: LC50 = 0.182 mg/l

Factor M = 1

Species: Oncorhynchus tschawytscha

Duration of exposure: 96 h

Crustacean toxicity : EC50 = 0.065 mg/l

Factor M = 10

Species : Ceriodaphnia dubia Duration of exposure : 48 h

AROMATIC HYDROCARBONS, C8 (CAS: 90989-38-1)

Fish toxicity: LC50 = 2.6 mg/l

Duration of exposure: 96 h

Crustacean toxicity: EC50 = 1 mg/l

Species : Daphnia magna Duration of exposure : 48 h

Algae toxicity: ECr50 = 2.2 mg/l

Duration of exposure : 72 h

1,1,1,2-TETRAFLUOROETHANE (CAS: 811-97-2)

Fish toxicity : LC50 = 450 mg/l

Species: Oncorhynchus mykiss

Duration of exposure: 96 h

Crustacean toxicity: EC50 = 930 mg/l

Species : Daphnia magna Duration of exposure : 48 h

ACETONE (CAS: 67-64-1)

Fish toxicity: LC50 = 5540 mg/l

Species : Oncorhynchus mykiss Duration of exposure : 96 h

Crustacean toxicity: EC50 = 8800 mg/l

Species : Daphnia magna Duration of exposure : 48 h

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

ZINC OXIDE (CAS: 1314-13-2)

Biodegradability: no degradability data is available, the substance is considered as not

degrading quickly.

HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

Biodegradability: Fast degrading.

ZINC POWDER - ZINC DUST (STABILISED) (CAS: 7440-66-6)

Biodegradability: no degradability data is available, the substance is considered as not

degrading quickly.

AROMATIC HYDROCARBONS, C8 (CAS: 90989-38-1)

Biodegradability: Fast degrading.

1,1,1,2-TETRAFLUOROETHANE (CAS: 811-97-2)

Biodegradability: no degradability data is available, the substance is considered as not

degrading quickly.

ACETONE (CAS: 67-64-1)

Biodegradability: no degradability data is available, the substance is considered as not

degrading quickly.

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

Biodegradability: no degradability data is available, the substance is considered as not

degrading quickly.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste:

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air,

soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14: TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2013 - IMDG 2012 - ICAO/IATA 2014).

14.1. UN number

1950

14.2. UN proper shipping name

UN1950=AEROSOLS, flammable

14.3. Transport hazard class(es)

- Classification:

2.1

14.4. Packing group

14.5. Environmental hazards

- Environmentally hazardous material:

14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	ldent.	LQ	Provis.	EQ	Cat.	Tunnel
	2	5F	-	2.1	-	1 L	190 327 344 625	E0	2	D
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ			
	2.1	See SP63	-	SP277	F-D,S-U	63 190 277 327 344 959	E0			
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	2.1	-	-	203	75 kg	203	150 kg	A145 A167 A145 A167 A802	E0	
	2.1	-	-	Y203	30 kg G	-	-	A145 A167 A802	E0	

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available.

SECTION 15: REGULATORY INFORMATION

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
- Classification and labelling information included in section 2:

The following regulations have been used:

- Directive 67/548/EEC and its adaptations
- Directive 1999/45/EC and its adaptations
- Directive 75/734/CEE modified by directive 2013/10/UE
- Regulation EC 1272/2008 modified by regulation EC 618/2012
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
- Container information:

No data available.

- Particular provisions :

No data available.

15.2. Chemical safety assessment

No data available.

SECTION 16: OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Hazard symbols:







Dangerous for the environment

Risk phrase:

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R 36/38 Irritating to eyes and skin. R 12 Extremely flammable.

R 67 Vapours may cause drowsiness and dizziness.

Safety phrase:

S 16 Keep away from sources of ignition - No smoking.

S 23 Do not breathe spray.

S 43 In case of fire, use sand, ground, a chemical powder or foam.

S 61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding

50°C.

Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 33 Take precautionary measures against static discharges.

S 37 Wear suitable gloves.

S 2 Keep out of the reach of children. S 51 Use only in well-ventilated areas.

S 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container

Title for H, EUH and R indications mentioned in section 3:

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H261	In contact with water releases flammable gases.
H280	Contains gas under pressure; may explode if heated.
H281	Contains refrigerated gas; may cause cryogenic burns or injury.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H312 + H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure .
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.
EUH066	Repeated exposure may cause skin dryness or cracking.
R 10	Flammable.
R 11	Highly flammable.
R 15	Contact with water liberates extremely flammable gases.
R 20/21	Harmful by inhalation and in contact with skin.
R 36	Irritating to eyes.
R 36/37/38	Irritating to eyes, respiratory system and skin.
R 38	Irritating to skin.

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R 48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R 50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 65	Harmful: may cause lung damage if swallowed.
R 66	Repeated exposure may cause skin dryness or cracking.
R 67	Vapours may cause drowsiness and dizziness.

Abbreviations:

DNEL: Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

ADR: European agreement concerning the international carriage of dangerous goods by Road.

IMDG: International Maritime Dangerous Goods. IATA: International Air Transport Association. ICAO: International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefahrdungsklasse (Water Hazard Class).

GHS02: Flame

GHS07 : Exclamation mark GHS09 : Environment