	HI ECO- SPRAY S.R.L.	Revision nr. 4
		Dated 22/02/2016
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	Safety data sheet	
	Ourery data sheet	
SECTION 1. Identification of the	substance/mixture and of the compa	any/undertaking
1.1. Product identifier		
Code:	Z352	
Product name Chemical name and synonym	Inox Spray protettivo Zincante	
1.2. Relevant identified uses of the substant Intended use Zinc protective		
•		
1.2. Details of the sumpliar of the selectividate	a abaat	
	a sheet GNOCCHI ECO- SPRAY S.R.L.	
Name Full address	GNOCCHI ECO- SPRAY S.R.L. Via per Pavone del Mella sn	
Name Full address	GNOCCHI ECO- SPRAY S.R.L.	
Name Full address	GNOCCHI ECO- SPRAY S.R.L. Via per Pavone del Mella sn 25020 Cigole (BS)	
Name Full address	GNOCCHI ECO- SPRAY S.R.L. Via per Pavone del Mella sn 25020 Cigole (BS) Italia	
Name Full address District and Country	GNOCCHI ECO- SPRAY S.R.L. Via per Pavone del Mella sn 25020 Cigole (BS) Italia Tel. +39 030 9959674	
<ul> <li><b>1.3. Details of the supplier of the safety data</b> Name Full address District and Country</li> <li>e-mail address of the competent person responsible for the Safety Data Sheet</li> </ul>	GNOCCHI ECO- SPRAY S.R.L. Via per Pavone del Mella sn 25020 Cigole (BS) Italia Tel. +39 030 9959674	
Name Full address District and Country e-mail address of the competent person responsible for the Safety Data Sheet <b>1.4. Emergency telephone number</b>	GNOCCHI ECO- SPRAY S.R.L. Via per Pavone del Mella sn 25020 Cigole (BS) Italia Tel. +39 030 9959674 Fax +39 030 959265	tel: +39 02 66101029
Name Full address District and Country e-mail address of the competent person	GNOCCHI ECO- SPRAY S.R.L. Via per Pavone del Mella sn 25020 Cigole (BS) Italia Tel. +39 030 9959674 Fax +39 030 959265 info@gnocchiecospray.com CENTRO ANTIVELENI Ospedale Niguarda	tel: +39 02 66101029

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 EC Regulation 1907/2006 and subsequent amendments. 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:	H222	Extremely flammable aerosol.
Aerosol, category 1	H229	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.

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



Signal v	words:
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Danger

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Hazard statements:

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

Precautionary statements:

P210 P211 P251 P264 P304+P340 P312 P410+P412	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash thoroughly after handling. Wear eye protection / face protection. IF INHALED: remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER / doctor / / if you feel unwell. Protect from sunlight. Do no expose to temperatures exceeding 50°C / 122°F.
Contains:	ACETONE N-BUTYL ACETATE

### 2.3. Other hazards.

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

# **SECTION 3.** Composition/information on ingredients.

### 3.1. Substances.

Information not relevant.

### 3.2. Mixtures.

Contains:

Identification.	Conc. %.	Classification 1272/2008 (CLP).
PROPANE		(•=: ).
CAS. 74-98-6	22,5 - 24	Flam. Gas 1 H220, Note U
EC. 200-827-9		
INDEX. 601-003-00-5		
BUTANE		
CAS. 106-97-8	19,5 - 21	Flam. Gas 1 H220, Note C U
EC. 203-448-7		
INDEX. 601-004-00-0		
ALUMINIUM POWDER (STABILIZED) ( 100% - metallic element )		
CAS. 7429-90-5	15 - 16,5	Flam. Sol. 1 H228, Water- react. 2 H261, Note T
EC. 231-072-3		,
INDEX. 013-002-00-1		
ACETONE		

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CAS. 67-64-1	15 - 16,5	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066	
EC. 200-662-2		201000	
INDEX. 606-001-00-8			
N-BUTYL ACETATE			
CAS. 123-86-4	8,5 - 10	Flam. Liq. 3 H226, STOT SE 3 H336, EUH066	
EC. 204-658-1			
INDEX. 607-025-00-1			
XYLENE (MIXTURE OF ISOMERS)			
CAS. 1330-20-7	8 - 9	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, Note C	
EC. 215-535-7			
INDEX. 601-022-00-9			

Note: Upper limit is not included into the range.

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

# **SECTION 4. First aid measures.**

### 4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately. INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

# **SECTION 5. Firefighting measures.**

#### 5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products.

#### 5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

# **SECTION 6.** Accidental release measures.

#### 6.1. Personal precautions, protective equipment and emergency procedures.

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

#### 6.2. Environmental precautions.

Do not disperse in the environment.

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

Use inert absorbent material to soak up leaked product. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

## **SECTION 7. Handling and storage.**

#### 7.1. Precautions for safe handling.

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

7.2. Conditions for safe storage, including any incompatibilities.

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Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C/122°F, away from any combustion sources.

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

Information not available.

## **SECTION 8. Exposure controls/personal protection.**

### 8.1. Control parameters.

Regulatory References:

DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en
		España 2015
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GRB	United Kingdom	EH40/2005 Workplace exposure limits
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia
		16 grudnia 2011r
EU	OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC;
		Directive 2000/39/EC.
	TLV-ACGIH	ACGIH 2014
GRB ITA POL	France United Kingdom Italia Polska OEL EU	España 2015 JORF n°0109 du 10 mai 2012 page 8773 texte n° 102 EH40/2005 Workplace exposure limits Decreto Legislativo 9 Aprile 2008, n.81 ROZPORZADZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.

#### PROPANE

Threshold Limit Value					
Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
AGW	DEU	1800	1000	7200	4000
MAK	DEU	1800	1000	7200	4000
NDS	POL	1800			
TLV-ACGIH			1000		

#### BUTANE Threshold Limit Value. TWA/8h STEL/15min Country Туре mg/m3 mg/m3 ppm ppm AGW DEU 2400 1000 9600 4000 MAK DEU 2400 1000 9600 4000 VLA ESP 800 VLEP FRA 1900 800 WEL GRB 1450 600 1810 750 NDS POL 1900 3000 TLV-ACGIH 2377 1000

### ACETONE

Threshold Limit Value. Type

Country

TWA/8h

STEL/15min

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		mg/m3	ppm	mg/m3	ppm
AGW	DEU	1200	500	2400	1000
MAK	DEU	1200	500	2400	1000
VLA	ESP	1210	500		
VLEP	FRA	1210	500	2420	1000
WEL	GRB	1210	500	3620	1500
TLV	ITA	1210	500		
NDS	POL	600		1800	
OEL	EU	1210	500		
TLV-ACGIH		1187	500	1781	750

# ALUMINIUM POWDER (STABILIZED)

Threshold Limit Value. Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
MAK	DEU	0,3				RESP.
MAK	DEU	4				INHAL.
MAK	DEU	1,5				
VLA	ESP	10				
VLEP	FRA	5				
WEL	GRB	4				
NDS	POL	2,5				INHAL.
NDS	POL	1,2				RESP.
TLV-ACGIH		1	0,9			

### N-BUTYL ACETATE

Threshold Limit Value. Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
MAK	DEU	480	100	960	200
VLA	ESP	724	150	965	200
VLEP	FRA	710	150	940	200
WEL	GRB	724	150	966	200
NDS	POL	200		950	
TLV-ACGIH		713	150	950	200

# XYLENE (MIXTURE OF ISOMERS)

Threshold Limit Value.						
Туре	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	440	100	880	200	SKIN.
MAK	DEU	440	100	880	200	SKIN.
VLA	ESP	221	50	442	100	SKIN.
VLEP	FRA	221	50	442	100	SKIN.
WEL	GRB	220	50	441	100	
TLV	ITA	221	50	442	100	SKIN.
NDS	POL	100				

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OEL	EU	221	50	442	100	SKIN.
TLV-ACGIH		434	100	651	150	
_egend:						
C) = CEILING ; INHA	L = Inhalable Frac	ction ; RESP =	Respirable Frac	ction ; THORA	. = Thoracic Frac	tion.
ΓLV of solvent mixture:	732 mg/m3.					
8.2. Exposure control	s.					
As the use of adequate hrough effective local as	technical equipm piration. Personal	ent must always l protective equip	take priority ov ment must be C	er personal prote E marked, show	ective equipmen ing that it compli	t, make sure that the workplace is well aire es with applicable standards.
Provide an emergency s	hower with face a	nd eye wash stati	on.			
HAND PROTECTION None required.						
SKIN PROTECTION Wear category I profess and water after removing			ety footwear (s	ee Directive 89/6	686/EEC and sta	ndard EN ISO 20344). Wash body with soa
EYE PROTECTION Wear airtight protective o	goggles (see stand	dard EN 166).				
combined with a type P f	e.g. TLV-TWA) is ilter should be wo evices must be u	rn (see standard sed if the technic	EN 14387). cal measures a	dopted are not s		in the product, a mask with a type AX filt
ENVIRONMENTAL EXP	OSURE CONTRO	DLS.				
The emissions generated environmental standards		g processes, inclu	uding those gen	erated by ventila	tion equipment,	should be checked to ensure compliance wi
SECTION 9. Phy	sical and cl	nemical pro	perties.			
9.1. Information on ba	asic physical and	l chemical prope	erties.			
Appearance Colour Odour Odour threshold. pH. Melting point / freezing Initial boiling point. Boiling range. Elash point	point.	Not availal Not availal Not availal < Not appl Not availal	ole. ole. icable. ole.			
Flash point. Evaporation Rate		< Not appl Not availal flammable	ole.			

Flash point.< Not applicable</th>Evaporation RateNot available.Flammability of solids and gasesflammable gasLower inflammability limit.Not available.Upper inflammability limit.Not available.Lower explosive limit.Not available.

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Upper explosive limit. Not available. Vapour pressure. Not available. Vapour density Not available. Not available. Relative density. Solubility insoluble Partition coefficient: n-octanol/water Not available. Auto-ignition temperature. Not available Decomposition temperature. Not available Not available. Viscosity Explosive properties Not available. Not available. Oxidising properties 9.2. Other information. 15,00 % Solid content. VOC (Directive 2010/75/EC) : 74,50 %

# SECTION 10. Stability and reactivity.

### 10.1. Reactivity.

VOC (volatile carbon) :

There are no particular risks of reaction with other substances in normal conditions of use.

56,99 %

ACETONE: decomposes under the effect of heat. N-BUTYL ACETATE: decomposes readily with water, especially when warm.

#### 10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

XYLENE (MIXTURE OF ISOMERS): stable, but may develop violent reactions in the presence of strong oxidising agents such as sulphuric and nitric acids and perchlorates. May form explosive mixtures with the air.

ACETONE: risk of explosion on contact with: bromine trifluoride, difluoro dioxide, hydrogen peroxide, nitrosyl chloride, 2-methyl-1,3 butadiene, nitromethane, nitrosyl perchlorate. Can react dangerously with: potassium tert-butoxide, alkaline hydroxides, bromine, bromoform, isoprene, sodium, sulphur dioxide, chromium trioxide, chromyl chloride, nitric acid, chloroform, peroxymonosulphuric acid, phosphoryl chloride, chromosulphuric acid, fluorine, strong oxidising agents. Develops flammable gases with nitrosyl perchlorate.

N-BUTYL ACETATE: risk of explosion on contact with: strong oxidising agents. Can react dangerously with alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with the air.

#### 10.4. Conditions to avoid.

Avoid overheating.

ACETONE: avoid exposure to sources of heat and naked flames. N-BUTYL ACETATE: avoid exposure to moisture, sources of heat and naked flames.

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### 10.5. Incompatible materials.

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

ACETONE: acid and oxidising substances.

N-BUTYL ACETATE: water, nitrates, strong oxidising agents, acids and alkalis and potassium tert-butoxide.

### 10.6. Hazardous decomposition products.

ACETONE: ketenes and other irritating compounds.

# **SECTION 11.** Toxicological information.

#### 11.1. Information on toxicological effects.

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.

Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation. Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

This product contains highly volatile substances, which may cause serious depression of the central nervous system (CNS) and have negative effects, such as drowsiness, dizziness, slow reflexes, narcosis.

This product may have a degreasing action on the skin, producing dryness and chapped skin after repeated exposure.

XYLENE (MIXTURE OF ISOMERS): has a toxic effect on the CNS (encephalopathies). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

N-BUTYL ACETATE:in humans the substance's vapours cause irritation to the eues and nose. In the event of repeated exposure, there is skin irritation, dermatosis (with driness and flaking of the skin) and keratitis.

XYLENE (MIXTURE OF ISOMERS) LD50 (Oral).3523 mg/kg Rat LD50 (Dermal).4350 mg/kg Rabbit LC50 (Inhalation).26 mg/l/4h Rat

N-BUTYL ACETATE LD50 (Oral).> 6400 mg/kg Rat LD50 (Dermal).> 5000 mg/kg Rabbit LC50 (Inhalation).21,1 mg/l/4h Rat

# **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.** Information not available.

12.2. Persistence and degradability.

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Solubility in water.	0 mg/l	
Biodegradability: Information not available		
XYLENE (MIXTURE OF ISOMERS) Solubility in water.	mg/l 100 - 1000	
Biodegradability: Information not available		
BUTANE		
Solubility in water.	mg/l 0,1 - 100	
Rapidly biodegradable.		
DRODANE		
PROPANE Selubility in writer		
Solubility in water. Rapidly biodegradable.	mg/l 0,1 - 100	
ACETONE		
Rapidly biodegradable.		
N-BUTYL ACETATE		
Solubility in water.	mg/l 1000 - 10000	
12.3. Bioaccumulative potential.		
XYLENE (MIXTURE OF		
ISOMERS) Partition coefficient: n-	3,12	
octanol/water.		
BCF.	25,9	
BUTANE		
Partition coefficient: n- octanol/water.	1,09	
PROPANE		
Partition coefficient: n- octanol/water.	1,09	
ACETONE		
Partition coefficient: n-	-0,23	
octanol/water. BCF.	3	
N-BUTYL ACETATE		
Partition coefficient: n-	2,3	
octanol/water.		

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BCF.	15,3	
12.4. Mobility in soil.		
12.4. Mobility in soil.		

Partition coefficient: soil/water.	2,73
N-BUTYL ACETATE	
Partition coefficient: soil/water.	< 3

#### 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 greater than 0,1%.

#### 12.6. Other adverse effects.

Information not available.

XYLENE (MIXTURE OF

# **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.

ADR / RID, IMDG, 1950 IATA:

#### 14.2. UN proper shipping name.

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

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

ADR / RID:

Class: 2 Label: 2.1



ATA:       Class: 2       Label: 2.1         APACA       NO       Limited       Tunnel restriction code: (D)         APACA       MDG:       HIN - Kemler:       Limited (Quantities: 1) code: (D)       Tunnel restriction code: (D)         MDG:       EMS: F-D, S-U       Limited (Quantities: 1) code: (D)       Tunnel restriction code: (D)		GN	NOCCHI ECO- SPRAY S.R.L.	Revisior Dated 2	n nr. 4 2/02/2016
Page n. 1214         MDG:       Class: 2       Label: 2.1         ATA:       Class: 2       Label: 2.1         APacking group.       A.1       S.5.         S.5. Environmental hazards.       S.5.         NDR / RID:       NO       MOG:       NO         ATA:       NO       MOG:       Limited Quantities: 1       Tunnel restriction code: (D)         Special precation: -       EMS: F-D, S-U       Limited Quantities: 1       Packaging instructions: 203         MDG:       EMS: F-D, S-U       Maximum quantity: 150 group instructions: 203       Packaging instructions: 203         ATA:       Cargo:       Maximum quantity: 75 group instructions: 203       Packaging instructions: 203       Packaging instructions: 203       Packaging instructions: 203         ATA:       Cargo:       Maximum group instructions: 203       Packaging instructions: 203       Packaging instructions: 203         ATA:       Cargo:       Maximum group instructions: 203       Packaging instructions: 203       Packaging instructions: 203       Packaging instructions: 203 <t< th=""><th></th><th></th><th>7352 - Inox Sprav</th><th>Printed</th><th>on 25/02/2016</th></t<>			7352 - Inox Sprav	Printed	on 25/02/2016
ATA: Class: 2 Label: 2.1				Page n.	12/14
A Packing group. ADR / RID, IMDG, - TATA: ADR / RID: NO MDG: NO ATA: NO ATA: NO ATA: NO ATA: NO ATA: NO ATA: NO ADR / RID: HIN - Kemler: ADR / RID: HIN - Kemler: ADR / RID: HIN - Kemler: ADR / RID: Limited Quantities: 1 Special Provision: - MDG: EMS: F-D, S-U MDG: EMS: F-D, S-U ATA: Cargo: Limited Quantities: 1 ATA: Cargo: Limited Quantities: 1 ATA: Kemler: MDG: Kemler: ATA: Kemler: ATA: Kemler: ATA: Kemler: ATA: Kemler: ATA: Kemler: ADR / RID: Limited Quantities: 1 Kemler: Kemler: Kemler: Kemler: Cargo: Kemler	IMDG:	Class: 2	Label: 2.1	*	
ADR / RID, IMDG, - .5. Environmental hazards. ADR / RID: NO MDG: NO ATA: NO .5. Special precautions for user. ADR / RID: HIN - Kemler: MDG: HIN - Kemler: MDG: EMS: F-D, S-U MDG: EMS: F-D, S-U MDG: Cargo: Maximum peckaging quantities: 1 Cargo: Pass: Quantities: 1 Quantities: 1 Cargo: Pass: Quantities: 1 Pass: Quantities: 1 Pass: Quantities: 1 Pass: Quantities: 1 Pass: Quantities: 1 Cargo: Pass: Quantities: 203 Cargo: Pass: Pass	ATA:	Class: 2	Label: 2.1		
ATA: .5. Environmental hazards. ADR / RID: NO ATA: NO .5. Special precautions for user. ADR / RID: HIN - Kemler: Limited Quantities: 1 restriction code: (D) .5. Special Provision: MDG: EMS: F-D, S-U Limited Quantities: 1 code: (D) .5. Special Provision: MDG: EMS: F-D, S-U Limited Quantities: 1 code: (D) .5. Special Provision: MDG: Cargo: Maximum Packaging instructions: Kg 203 .5. Pass.: Maximum Packaging instructions: Kg 203 .5. Special Instructions: A145, A167, A802 .5. Transport In bulk according to Annex II of MARPOL73/78 and the IBC Code.	.4. Packing group				
ADR / RID: NO MDG: NO ATA: NO S.6. Special precautions for user. ADR / RID: HIN - Kemler: Limited Quantities: 1 Tunnel restriction code: (D) Special Provision: MDG: EMS: F-D, S-U Limited Quantities: 1 Log Special Provision: ATA: Cargo: Maximum quantity: 150 pas.: Maximum quantity: 150 pas.: Maximum quantity: 150 pas.: Maximum quantity: 150 pas.: Maximum quantity: 75 go packaging instructions: 203 packag	ADR / RID, IMDG, ATA:	-			
MDG: NO ATA: NO S. Special precautors for user. ADR / RID: HIN - Kemler: Limited Quantities: 1 Special Provision: - MDG: EMS: F-D, S-U Limited Quantities: 1 ATA: Cargo: Maximum Packaging instructions: Pass.: Kg Quantity: 150 Pass.: Kg Quantity: 150 Pass.: Kg Quantity: 75 Pass.: Kg Quantity: 75 Special Instructions: Pass.: Kg Quantity: 75 Special Instructions: A802 X. T. Transport in bulk according to AmPOL73/78 and the IBC Code.	4.5. Environmental	hazards.			
ATA: NO S. Special precautions for user. ADR / RID: ININ - Kemler: Limited Quantities: 1 restriction code: (D) Special Provision: - MDG: EMS: F-D, S-U Limited Quantities: 1 ATA: Cargo: Limited Quantities: 1 ATA: Cargo: Maximum Packaging instructions: Kg 203 Pass.: Maximum Packaging instructions: Kg 203 Pass.: Kg 3, 167, A802 ATA: CT. Transport in bulk according to AmPPOLT3/T8 and the IBC Code.	ADR / RID:	NO			
ADR / RID: HIN - Kemler: Limited Quantities: 1 restriction code: (D) Special Provision: - MDG: EMS: F-D, S-U Limited Quantities: 1 L ATA: Cargo: Maximum Packaging instructions: 203 Pass.: Maximum Packaging instructions: Kg guantity: 150 instructions: Kg guantity: 75 instructions: 203 Pass.: Kg guantity: 75 instructions: X45, A167, A802	IMDG:	NO			
ADR / RID: HIN - Kemler: Limited Quantities: 1 code: (D) Special Provision: - MDG: EMS: F-D, S-U Limited Quantities: 1 L ATA: Cargo: Limited Quantities: 1 L ATA: Cargo: Pass.: Aximum Packaging instructions: Kg 203 Pass.: Pass.: Kg 203 Special Instructions: Kg 203 Special Instructions: Kg 203 Special Instructions: Kg 203 Special Instructions: Kg 203 A145, A167, A802	IATA:	NO			
ATA:       Cargo:       Maximum       Packaging         Pass.:       Pass.:       Maximum       Packaging         Special Instructions:       Kg       203         ATA:       Special Instructions:       Kg       203         ATA:       Pass.:       Maximum       Packaging         Quantity: 150       instructions:       Kg       203         Ata:       Pass.:       Maximum       Packaging         Quantity: 75       instructions:       Kg       203         Ata:       Ata:       Ata:       Packaging         Quantity: 75       instructions:       Kg       203         Ata:       Ata:       Ata:       Ata:       Ata:	4.6. Special precau	tions for user.			
MDG: EMS: F-D, S-U Limited Quantities: 1 L ATA: Cargo: Maximum Packaging quantity: 150 instructions: Kg 203 Pass.: Maximum Packaging quantity: 75 instructions: Kg 203 Pass.: Maximum Packaging quantity: 75 instructions: Kg 203 Special Instructions: A145, A167, A802	ADR / RID:		HIN - Kemler:	Quantities: 1	restriction
ATA: Cargo: Maximum Packaging quantity: 150 instructions: Kg 203 Pass.: Maximum Packaging quantity: 75 instructions: Kg 203 Special Instructions: Kg 203 Special Instructions: Kg 203 A145, A167, A802			Special Provision: -	-	
ATA: Cargo: Maximum Packaging quantity: 150 instructions: Kg 203 Pass.: Maximum Packaging quantity: 75 instructions: Kg 203 Special Instructions: Kg 203 Special Instructions: A145, A167, A802	IMDG:		EMS: F-D, S-U	Quantities: 1	
Pass.: Maximum Packaging quantity: 75 instructions: Kg 203 Special Instructions: A145, A167, A802	IATA:		Cargo:	Maximum quantity: 150	instructions:
Special Instructions: A145, A167, A802			Pass.:	Maximum quantity: 75	Packaging instructions:
formation not relevant.			Special Instructions:	A145, A167,	200
	4.7. Transport in bu	Ik according to	Annex II of MARPOL73/78 and the IBC Code.		
	formation not releva	nt.			
		Dogulatory	information		

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

Seveso category.

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

Product. Point.

8

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Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisarion (Annex XIV REACH).

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None.

Substances subject to exportation reporting pursuant to (EC) Reg. 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.

### 15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

# **SECTION 16. Other information.**

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

Flam. Gas 1	Flammable gas, category 1
Aerosol 1	Aerosol, category 1
Aerosol 3	Aerosol, category 3
Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Flam. Sol. 1	Flammable solid, category 1
Acute Tox. 4	Acute toxicity, category 4
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
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.
H228	Flammable solid.
H261	In contact with water releases flammable gases.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H319	Causes serious eye irritation.
H315	Causes skin irritation.

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H336	May cause drowsiness or dizziness.	
EUH066	Repeated exposure may cause skin dryness or cracking.	
EGEND:	greement concerning the carriage of Dangerous goods by Road	
	hemical Abstract Service Number	
	oncentration (required to induce a 50% effect)	
	ntifier in ESIS (European archive of existing substances)	
CLP: EC Regulation DNEL: Derived No.		
EmS: Emergency		
	rmonized System of classification and labeling of chemicals	
	ational Air Transport Association Dangerous Goods Regulation	
	ion Concentration 50% al Maritime Code for dangerous goods	
	I Maritime Organization	
	Identifier in Annex VI of CLP	
LC50: Lethal Cond		
LD50: Lethal dose OEL: Occupationa		
	ioaccumulative and toxic as REACH Regulation	
PEC: Predicted er	nvironmental Concentration	
PEL: Predicted ex	•	
REACH: EC Regu	no effect concentration	
RID: Regulation co	oncerning the international transport of dangerous goods by train	
TLV: Threshold Li	mit Value	
	ncentration that should not be exceeded during any time of occupational exposure.	
	t-term exposure limit ted average exposure limit	
VOC: Volatile orga		
	stent and very Bioaccumulative as for REACH Regulation	
	ard classes (German).	
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	618/2012 (III Atp. CLP) of the European Parliament 487/2013 (IV Atp. CLP) of the European Parliament	
	944/2013 (V Atp. CLP) of the European Parliament	
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ECHA website		
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	ntained in the present sheet are based on our own knowledge on the date of the las ovided information according to each specific use of the product.	a version. Osers must verify the suitability and
	st not be regarded as a guarantee on any specific product property.	
he use of this proc	duct is not subject to our direct control; therefore, users must, under their own responsi	ibility, comply with the current health and safet

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.

Changes to previous review: The following sections were modified: 02 / 09 / 15.