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<b>SECTION 1. Identification of the s</b> <b>1.1. Product identifier</b> Code: Product name Chemical name and synonym	Safety data sheet ubstance/mixture and of the compa Z353 Zinco 98 Protettivo verniciante	any/undertaking
1.2. Relevant identified uses of the substance         Intended use       Zinc protective	or mixture and uses advised against	
1.3. Details of the supplier of the safety data sl	heet GNOCCHI ECO- SPRAY S.R.L.	
Full address District and Country	Via per Pavone del Mella sn 25020 Cigole (BS) Italia	
	Tel. +39 030 9959674	
	Fax +39 030 959265	
	1 4X - 55 656 555265	
e-mail address of the competent person	1 44 - 55 555 555255	
e-mail address of the competent person responsible for the Safety Data Sheet	info@gnocchiecospray.com	
		tel: +39 02 66101029
responsible for the Safety Data Sheet 1.4. Emergency telephone number	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: 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.
Hazardous to the aquatic environment, acute toxicity, category 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment, chronic toxicity, category 1	H410	Very toxic to aquatic life with long lasting effects.

#### 2.2. Label elements.

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

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	! *						
Signal words:	Danger						
lazard statements:							
H222 H229 H319 H315 H410	Extremely flammable aerosol. Pressurised container: may burst if Causes serious eye irritation. Causes skin irritation. Very toxic to aquatic life with long la						
Precautionary stateme	nts:						
P210 P211 P251 P264 P280 P302+P352 P332+P313 P410+P412	Do not spray on an open flame or of Do not pierce or burn, even after us Wash thoroughly after handling. Wear protective gloves / eye protect IF ON SKIN: wash with plenty of wa If skin irritation occurs: Get medical	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 protective gloves / eye protection / face protection. IF ON SKIN: wash with plenty of water / If skin irritation occurs: Get medical advice / attention. Protect from sunlight. Do no expose to temperatures exceeding 50°C / 122°F.					
<b>2.3. Other hazards.</b> On the basis of availab	le data, the product does not contain any	PBT or vPvB in percentage greater	than 0,1%.				
SECTION 3. Co	omposition/information on in	igredients.					
3.1. Substances.							
nformation not relevan	ıt.						
3.2. Mixtures.							
Contains:							
Identification.	Conc. 9	%. Classification 1272/2 (CLP).	008				
BUTANE							
CAS. 106-97-8	22,5 - 2	4 Flam. Gas 1 H220, No	te C U				
EC. 203-448-7							
INDEX. 601-004-00	-0						
PROPANE							
CAS. 74-98-6	22,5 - 2	4 Flam. Gas 1 H220, No	te U				
EC. 200-827-9							
INDEX. 601-003-00	-5						
	NC DUST ( 100% - metallic						
element) CAS. 7440-66-6	19,5 - 2	1 Aquatic Acute 1 H400 Aquatic Chronic 1 H41					

Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410

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		M=10
EC. 231-175-3		
INDEX. 030-001-01-9		
ACETONE		
CAS. 67-64-1	12 - 13,5	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC. 200-662-2		
INDEX. 606-001-00-8		
XYLENE (MIXTURE OF ISOMERS)		
CAS. 1330-20-7	10,5 - 12	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		
NAPHTHA (PETROLEUM), HYDROTREATED		
CAS. 64742-49-0	7 - 8	Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 2 H411, Note P
EC. 265-151-9		
INDEX. 649-328-00-1		
Reg. no. 012119484561-34-xxxx		
ALUMINIUM POWDER (STABILIZED) ( 100% - metallic element )		
CAS. 7429-90-5	5 - 6	Flam. Sol. 1 H228, Water- react. 2 H261, Note T
EC. 231-072-3		- ,
INDEX. 013-002-00-1		

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. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly 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.

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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.

## 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.

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# **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.

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:

DE	U Deutschland	MAK-und BAT-Werte-Liste 2012
ES	P España	INSHT - Límites de exposición profesional para agentes químicos en
		España 2015
FR/	A France	JORF n°0109 du 10 mai 2012 page 8773  texte n° 102
GR	B United Kingdom	EH40/2005 Workplace exposure limits
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
PO	L 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
1		

PROPANE					
Threshold Limit Value.					
Туре	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.					
Туре	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm

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						I	
AGW	DEU	2400	1000	9600	4000		
MAK	DEU	2400	1000	9600	4000		
/LA	ESP		800				
/LEP	FRA	1900	800				
WEL	GRB	1450	600	1810	750		
NDS	POL	1900		3000			
TLV-ACGIH				2377	1000		
ZINC POWDER - ZINC D	UST						
Threshold Limit Value.	Country	TWA/8h		STEL/15min			
rype	Country	mg/m3	ppm	mg/m3	ppm		
МАК	DEU	0,1	ррш	0,4	ppin	RESP.	
WAR	DEO	0,1		0,4		NLOF.	
Threshold Limit Value. Type	Country	TWA/8h		STEL/15min			
		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		
XYLENE (MIXTURE OF I Threshold Limit Value.	SOMERS)						
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					
OEL	EU	221	50	442	100	SKIN.	
TLV-ACGIH		434	100	651	150		
NAPHTHA (PETROLEUI Threshold Limit Value.				0.75			
Туре	Country	TWA/8h		STEL/15min			
OEL	EU.	mg/m3	ppm	mg/m3	ppm		
	EU			72			

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	Effects on consumers.				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.	1301 mg/kg/d	1301 mg/kg/d				-		
Inhalation.			1137 mg/m3	1137 mg/m3			5306 mg/m3	5306 mg/m3
Skin.	1377 mg/kg/d	1377 mg/kg/d					13964 mg/kg/d	13964 mg/kg/d

#### 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			

#### 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.

TLV of solvent mixture: 649 mg/m3.

#### 8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION None required.

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387). Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold

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values considered. The protection provided by masks is in any case limited.

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.

Appearance	aerosol
Colour	various
Odour	characteristic of solvent
Odour threshold.	Not available.
pH.	Not available.
Melting point / freezing point.	Not available.
Initial boiling point.	< Not applicable.
Boiling range.	Not available.
Flash point.	< Not applicable.
Evaporation Rate	Not available.
Flammability of solids and gases	flammable gas
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Relative density.	Not available.
Solubility	insoluble
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.
- 51 1	
9.2. Other information.	

Solid content.	25,00 %
VOC (Directive 2010/75/EC) :	75,00 %
VOC (volatile carbon) :	60,21 %

## **SECTION 10. Stability and reactivity.**

#### 10.1. Reactivity.

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

ACETONE: decomposes under the effect of heat.

## 10.2. Chemical stability.

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

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#### 10.3. Possibility of hazardous reactions.

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

ZINC POWDER - ZINC DUST: risk of explosion on contact with: ammonium nitrate, ammonium sulphide, barium peroxide, lead nitride, chlorates, chromium trioxide, sodium hydroxide solutions, oxidising agents, performic acid, acids, tetrachloromethane, water. May react dangerously with alkali hydroxides, bromine pentafluoride, calcium chloride solution, fluorine, hexachloroethane, nitrobenzene, potassium dioxide, carbon disulphide, silver. Reacts with acids and strong alkalis developing hydrogen.

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.

#### 10.4. Conditions to avoid.

Avoid overheating.

ACETONE: avoid exposure to sources of heat and naked flames.

#### 10.5. Incompatible materials.

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

ZINC POWDER - ZINC DUST: water, strong alkalis and acids. ACETONE: acid and oxidising substances.

#### 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.

Acute effects: contact with skin may cause: irritation, erythema, edema, dryness and chapped skin. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

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

XYLENE (MIXTURE OF ISOMERS)

GNOC	Revision nr. 9 Dated 22/02/2016	
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D50 (Oral).3523 mg/kg Rat		
D50 (Dermal).4350 mg/kg Rabbit C50 (Inhalation).26 mg/l/4h Rat		
SECTION 12. Ecological infor	mation.	
his product is dangerous for the environmen <b>12.1. Toxicity.</b>	t and highly toxic for aquatic organisms. In the long term, i	t have negative effects on aquatic environment.
ZINC POWDER - ZINC		
DUST LC50 - for Fish.	7,1 mg/l/96h Nothobranchius guentheri	
EC50 - for Crustacea.	2,8 mg/l/48h Daphnia magna	
EC50 - for Algae / Aquatic	0,015 mg/l/72h Pseudokirchneriella subcapitata	
Plants.	o,o to mg/#12111 Seduomioninenena Subcapitata	
12.2. Persistence and degradability.		
ALUMINIUM POWDER (STABILIZED)		
Solubility in water.	0 mg/l	
Biodegradability: Information not available.		
ZINC POWDER - ZINC DUST		
Solubility in water.	mg/l 0,1 - 100	
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.		
PROPANE		
PROPANE	<b>11.0.4</b> 400	
Solubility in water.	mg/l 0,1 - 100	
Rapidly biodegradable.		
ACETONE		
Rapidly biodegradable.		
, , ,		
NAPHTHA (PETROLEUM),		
HYDROTREATED LIGHT Rapidly biodegradable.		
เฉมานาร มายนอนเลนสมเย.		

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12.3. Bioaccumulative potential.	
XYLENE (MIXTURE OF ISOMERS) Partition coefficient: n- octanol/water. BCF.	3,12 25,9
BUTANE	
Partition coefficient: n- octanol/water.	1,09
PROPANE	
Partition coefficient: n- octanol/water.	1,09
ACETONE	
Partition coefficient: n- octanol/water.	-0,23
BCF.	3
12.4. Mobility in soil.	
XYLENE (MIXTURE OF ISOMERS) Partition coefficient: soil/water.	2,73
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT Partition coefficient: soil/water.	1,78

#### 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.

# **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.

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## 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 (ZINC POWDER
IATA <sup>.</sup>	- ZINC DUST) 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: --Limited Tunnel Quantities: 1 restriction L code: (D) Special Provision: -IMDG: EMS: F-D, S-U Limited Quantities: 1 L IATA: Cargo: Maximum Packaging quantity: 150 instructions: 203 Kg

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Pass.:	Maximum quantity: 75 Kg	Packaging instructions: 203
Special Instructions:	A145, A167, A802	200
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Coc	de.	
Information not relevant.		
SECTION 15. Regulatory information.		
15.1. Safety, health and environmental regulations/legislation specific for the	substance or mixture.	
Seveso category. 8, 9i		
Restrictions relating to the product or contained substances pursuant to Annex XVII	to EC Regulation 1907/2006.	
Product. Point. 40		
Substances in Candidate List (Art. 59 REACH).		
None.		
Substances subject to authorisarion (Annex XIV REACH).		
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 workers' health and safety are modest and that the 98/24/EC directive is respected.	that available risk-assessment d	ata prove that the risks related to the
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:

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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
Asp. Tox. 1	Aspiration hazard, category 1
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
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.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H315	Causes skin 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.
EUH066	Repeated exposure may cause skin dryness or cracking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 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 NUMBER: 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

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# Z353 – 98% zinc

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Page n. 15/15 PEL: Predicted exposure level PNEC: Predicted no effect concentration REACH: EC Regulation 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 STEL: Short-term exposure limit TWA: Time-weighted average 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 (EU) 1907/2006 (REACH) of the European Parliament 2. Regulation (EU) 1272/2008 (CLP) of the European Parliament 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament 4. Regulation (EU) 2015/830 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 - 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 ECHA website 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. Changes to previous review: The following sections were modified: 02 / 03 / 08 / 09 / 15 / 16.