

# Safety Data Sheet according to Regulation (EC) 'No. 2020/878

# SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1	Product Identifier	01500Z/ISO	Revision Date:	02/02/2023
	Product Name:	STONCLAD UF ISOCYANATE	Supersedes Date:	02/02/2023
	CAS Number:	9016-87-9	Version Number:	3
	EC Number:	618-498-9		
	Index Number:			
	REACH Reg No.			
	Sector of Use Code:	No Information		
	UFI Code:	No Information		
	Nanoform:	No		
1.2	Relevant identified uses of the substance or mixture and uses advised against	For use by appropriately trained applicators. Hardener for 2 component coatings - Professional use only. Please see Technical Data Sheet. Advised against: others than recommended		

1.3 Details of the supplier of the safety data sheet

	Importer:	None
	Manufacturer:	Stonhard Europe 9 Rue du Travail 1400 Nivelles Belgium
		Regulatory / Technical Information: +32 67493710 Nivelles, Belgium
	Datasheet Produced by:	ehs-eu@stonhard.com
1.4	Emergency telephone number:	CHEMTREC +1 703 5273887 (Outside US) PPC +1 412 6816669 (Outside US) Centro Antiveleni di Milano Tel+39 02 66101029 (CAV - Grande Ospedale Metropolitano Niguarda - Milano)(24h/24h) Emergenza ambientale +39 335-601 32 88 / +39 347-949 84 88 / +39 348-246 90 99

# **SECTION 2: Hazards Identification**

## 2.1 Classification of the substance or mixture

Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008

#### HAZARD STATEMENTS

Skin Irritation, category 2	H315
Skin Sensitizer, category 1	H317
Eye Irritation, category 2	H319
Acute Toxicity, Inhalation, category 4	H332
Respiratory Sensitizer, category 1	H334
STOT, single exposure, category 3, RTI	H335
Carcinogenicity, category 2	H351
STOT, repeated exposure, category 2	H373

#### 2.2 Label elements

Symbol(s) of Product



# Signal Word

Danger

# Named Chemicals on Label

Diphenylmethane-diisocyanate, isomers and homologues

# HAZARD STATEMENTS

Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Eye Irritation, category 2	H319	Causes serious eye irritation.
Acute Toxicity, Inhalation, category 4	H332	Harmful if inhaled.
Respiratory Sensitizer, category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
STOT, repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
PRECAUTION PHRASES		
	P260	Do not breathe dust/fume/gas/mist/vapours/spray.
	P280	Wear protective gloves/protective clothing/eye protection/ face protection.
	P302+P352	IF ON SKIN: Wash with plenty of water and soap.
	P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P305+P351+P33 8	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
	P308+P313	IF exposed or concerned: Get medical advice/attention

# 2.3 Other hazards

No Information

#### Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

## Endocrine disrupting properties - Toxicity

Name According to EEC

CAS-No.

#### No Information

#### Endocrine disrupting properties - Ecotoxicity

Name According to EEC CAS-No.

No Information

# **SECTION 3: Composition/Information On Ingredients**

#### 3.1 Substances

#### Hazardous ingredients

Name According to EEC EINEC No. CAS-No. REACH Reg No.	<u>%</u>	<u>Classifications</u>		SCL Value: ATE Value: M-Factor:
Diphenylmethane-diisocyanate, isomers and homologues	75-100	H315-317-319-332-334-335-351-373	SCL Value:	-
618-498-9 9016-87-9			ATE Value:	-
No Information		Acute Tox. 4 Inhalation, Carc. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Irrit. 2, Skin Sens. 1, STOT RE 2, STOT SE 3 RTI	M-Factor:	-

Additional Information: The text for CLP Hazard Statements shown above (if any) is given in Section 16.

### **SECTION 4: First-aid Measures**

#### 4.1 Description of First Aid Measures

GENERAL NOTES: When symptoms persist or in all cases of doubt seek medical advice.

**AFTER INHALATION:** Move to fresh air. Consult a physician after significant exposure.

AFTER SKIN CONTACT: Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

AFTER EYE CONTACT: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses.

AFTER INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

#### Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

May cause sensitization by inhalation. May cause sensitization by skin contact. Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes and respiratory system.

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## **SECTION 5: Firefighting Measures**

#### 5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above.

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

Heating or fire can release toxic gas.

#### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. ABC powder. High volume water jet. Hazardous decomposition products formed under fire conditions. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Water reactive

## **SECTION 6: Accidental Release Measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.1.1 For non-emergency personnel

Ensure adequate ventilation. Use personal protective equipment.

#### 6.1.2 For emergency responders

No Information

#### 6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains. Keep the container open.

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

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

#### 6.4 Reference to other sections

**FURTHER INSTRUCTIONS:** Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 8 and 13 for further information.

### SECTION 7: Handling and Storage

## 7.1 Precautions for safe handling

Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Do not breathe vapours or spray mist. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is being used. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

#### 7.2 Conditions for safe storage, including any incompatibilities

**CONDITIONS TO AVOID:** Avoid dust accumulation in enclosed space. Keep from any possible contact with water. **STORAGE CONDITIONS:** Store in original container. Keep container tightly closed in a dry and well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons.

#### 7.3 Specific end use(s)

The mixing and application to be in accordance with the technical data sheets.

# **SECTION 8: Exposure Controls/Personal Protection**

#### 8.1 Control parameters

Ingredients with Occupational Exposure Limits (UK WELS)

<u>Name</u> Diphenylmethane-diisocyanate, isomers an homologues	<u>CAS-No.</u> d9016-87-9	LTEL ppm	<u>STEL ppm</u>	<u>STEL mg/m3</u>	LTEL mg/m3 0.02
Name	CAS-No. OEL Note				
Diphenylmethane-diisocyanate, isomers and homologues	9016-87-9				

**FURTHER ADVICE:** Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation.

#### Chemical Name:

EC No.: CAS-No.:

### **DNELs - Derived no effect level**

	Workers			Consumers				
Route of	Acute effect	Acute effects	Chronic	Chronic effects	Acute effect	Acute effects	Chronic	Chronic effects
Exposure	local	systemic	effects local	systemic	local	systemic	effects local	systemic
Oral	Not required							
Inhalation								
Dermal								

## PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	
Fresh water sediments	
Marine water	
Marine sediments	
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	
Air	

#### 8.2 Exposure controls

## Personal Protection

**RESPIRATORY PROTECTION:** Respirator with combination filter for vapour/particulate (EN 14387:2004+A1:2008): A1-P3. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with a vapour filter (EN 14387:2004+A1:2008). Respirator with a vapor filter.

**EYE PROTECTION:** Ensure that eyewash stations and safety showers are close to the workstation location. Safety goggles. Tightly fitting safety goggles.

**HAND PROTECTION:** Impervious gloves. Protective gloves complying with EN 374. Long sleeved clothing. Remove and wash contaminated clothing before re-use.

**OTHER PROTECTIVE EQUIPMENT:** No Information

**ENGINEERING CONTROLS:** Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

# **SECTION 9: Physical and Chemical Properties**

# 9.1 Information on basic physical and chemical properties

Colour:	AMBER
Physical State	Liquid
Odor	SLIGHT
Odor threshold	n/a

рH	n/a
Melting point / freezing point (°C)	Not determined
Boiling point or initial boiling point and boiling range (°C)	300 - 300
Flash Point, (°C)	200
Evaporation rate	n/a
Flammability (solid, gas)	n/a
Llower and upper explosive limit	Not determined - Not determined
Vapour Pressure	n/a
Relative vapour density	n/a
Density and/or relative density	1.24
Solubility in / Miscibility with water	reacts with water
Partition coefficient: n-octanol/water	n/a
Auto-ignition temperature (°C)	>500
Decomposition temperature (°C)	n/a
Kinematic viscosity	120 mPas
Particle characteristics	Not applicable to liquids
Other information VOC Content g/I: Grams of VOC per liter of coating product a	0.00 s applied per ISO 11890-1 and/or ISO 11890-2.

# **SECTION 10: Stability and Reactivity**

#### 10.1 Reactivity

9.2

No reactivity hazards known under normal storage and use conditions.

#### 10.2 Chemical stability

Container can be pressurized by carbon dioxide due to reaction with humid air and/or water. Stable under normal conditions.

# 10.3 Possibility of hazardous reactions

Specific Gravity (g/cm3)

Hazardous polymerisation does not occur.

#### 10.4 Conditions to avoid

Avoid dust accumulation in enclosed space. Keep from any possible contact with water.

1.24

#### 10.5 Incompatible materials

Reacts violently in contact with acids, amines, driers, polymerisation accelerators and easily oxidized materials. Contact with water or moist air liberates irritating gas.

#### 10.6 Hazardous decomposition products

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

# **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as definied in Regulation (EC) No 1272/2008

No information available.
No information available.
No Information

Irritation:	No information available.
Corrosivity:	No information available.
Sensitization:	No information available.
Repeated dose toxicity:	No information available.
Carcinogenicity:	No information available.
Mutagenicity:	No information available.
Toxicity for reproduction:	No information available.
STOT-single exposure:	No information available.
STOT-repeated exposure:	No information available.
Aspiration hazard:	No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Name According to EEC	Oral LD50	Dermal LD50	Vapor LC50	Gas LC50	Dust/Mist LC50
9016-87-9	Diphenylmethane- diisocyanate, isomers and homologues	>10000 mg/kg (oral, rat)	>9400 mg/kg (dermal, rabbit)	No information	No information	No information

#### Additional Information:

Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates. May cause allergic respiratory reaction.

CAS-No.

# 11.2 Information on other hazards

Endocrine	disrupting	properties	- Toxicity

Name According to EEC

No Information

# **SECTION 12: Ecological Information**

12.1 Toxicity:

	EC50 48hr (Daphnia):	No information
	IC50 72hr (Algae):	No information
	LC50 96hr (fish):	No information
12.2	Persistence and degradability:	No information
12.3	Bioaccumulative potential:	No information
12.4	Mobility in soil:	No information
12.5	Results of PBT and vPvB assessment:	The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.
12.6	Endocrine disrupting properties	

# Endocrine disrupting properties - Ecotoxicity

Nar	ne According to EEC	CAS-No.			
No Information					
12.7 Other	r adverse effects:	No information			
CAS-No.	Name According to EEC	<u>EC50 48hr</u>	<u>IC50 72hr</u>	<u>LC50 96hr</u>	
9016-87-9	Diphenylmethane-diisocyanate, isome homologues	ers and No informatio	n 1640 mg/L	>1000 mg/L	

# **SECTION 13: Disposal Considerations**

**13.1** WASTE TREATMENT METHODS: Dispose of as hazardous waste in compliance with local and national regulations. If recycling is not practicable, dispose of in compliance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

European Waste Code:080111\*Packaging Waste Code:150110

# **SECTION 14: Transport Information**

		ADR/RID	ADN	IMDG	IATA
14.1	UN-number or ID number	No Information	No Information	No Information	No Information
14.2	UN proper shipping name	Not regulated for transport according to U.S. DOT, ADR/RID, IMDG, and IATA regulations.	Not regulated for transport according to U.S. DOT, ADR/ RID, IMDG, and IATA regulations.	Not regulated for transport according to U.S. DOT, ADR/RID, IMDG, and IATA regulations.	Not regulated for transport according to U.S. DOT, ADR/RID, IMDG, and IATA regulations.
14.3	Transport Hazard Class(es)	No Information	No Information	No Information	No Information
14.4	Packing Group	No Information	No Information	No Information	No Information
14.5	Enviromental Hazards	No Information	No Information	No Information	No Information

14.6	Special precautions for user	Not applicable
	EmS-No.:	Not applicable
147	Maritime transport in bulk according to IMO	Not applicable

14.7 Maritime transport in bulk according to IMO Not applicable intruments

# **SECTION 15: Regulatory Information**

15.1	Safety, health and environmental regulations/legislation for the substance or mixture: National Regulations:		
	Denmark Product Registration Number:	Not available	
	Danish MAL Code:	Not available	
	Danish MAL Code - Mixture:	Not available	
	Sweden Product Registration Number:	Not available	
	Norway Product Registration Number:	Not available	
	Germany WGK Class:	Not available	
	Directive 2004/42/CE :	5	
	Covered by Directive 2012/18/EC (Seveso III):	Not applicable	

#### Restrictions to product or to substances according to Annex XVII, Regulation (CE) 1907/2006: Not a

Not applicable

#### Annex XIV, Regulation (CE) 1907/2006 - Authorisation List:

CAS-No. Name According to EEC

Not Applicable

#### SVHC - Substances of very high concern (Candidate List - Art. 59 REACH):

#### CAS-No. Name According to EEC

Not Applicable

# 15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

# SECTION 16: Other Information

#### Text for CLP Hazard Statements shown in Section 3 describing each ingredient:

athing difficulties if inhaled.
ed or repeated exposure.

#### Reasons for revision

Substance and/or Product Properties Changed in Section(s):

01 - Identification

This Safety Data Sheet (SDS) has been revised to meet the new EU CLP requirements. There have been both formatting and content changes based on the CLP classification (if applicable), please review each section of the SDS for specific changes.

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

- The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark.
- Joint Research Centre in Ispra, Italy.
- Regulation (EC) 1272/2008 with subsequent amendments.
- Regulation (EC) 1272/2006 with subsequent amendments.
- Commission Regulation (EU) 2020/878
- EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"
- Safety Data Sheet from raw material supplier
- The classification of the product is based on the calculation methods set out in Annex I and Annex II of the CLP Reg. 1272/2008 on the exact composition of the formula

Acronym & Abbreviation Key:

CLP	Classification, Labeling & Packaging Regulation
EC	European Commission
EU	European Union
US	United States
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Chemical Substances
REACH	Registration, Evaluation, Authorization of Chemicals Regulation

0110	Olehalle Usereniaal Oseter of Oleasification and Ishalian of Ohemiaals
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
LTEL	Long term exposure limit
STEL	Short term exposure limit
OEL	Occupational exposure limit
ppm	Parts per million
mg/m3	Milligrams per cubic meter
TLV	Threshold Limit Value
ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety & Health Administration
PEL	Permissible Exposure Limits
VOC	Volatile organic compounds
g/l	Grams per liter
mg/kg	Milligrams per kilogram
N/A	Not applicable
LD50	Lethal dose at 50%
LC50	Lethal concentration at 50%
EC50	Half maximal effective concentration
IC50	Half maximal inhibitory concentration
PBT	Persistent bioaccumulative toxic chemical
vPvB	Very persistent and very bioaccumulative
EEC	European Economic Community
ADR	International Transport of Dangerous Goods by Road
RID	International Transport of Dangerous Goods by Rail
UN	United Nations
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association
MARPOL	International Convention for the Prevention of Pollution From Ships, 1973 as
	modified by the Protocol of 1978
IBC	International Bulk Container
RTI	Respiratory Tract Irritation
NE	Narcotic Effects
тмо	International Maritime Organization
Note P:	The classification as a carcinogen or mutagen need not apply; the substance
	contains less than 0,1 % w/w benzene
Note 10:	The classification as a carcinogen by inhalation applies only to mixtures in
	powder form containing 1 % or more of titanium dioxide which is in the form of
	or incorporated in particles with aerodynamic diameter ≤ 10 µm.
	of incorporation in participito with deroughamic diameter - 10 pm.

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.