

Revision nr.3 Dated 11/10/2019 Printed on 11/10/2019 Page n. 1 / 9 Replaced revision:2 (Dated 21/06/2017) ΕN

U-BOND ULTRA 1min - 2K part A

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

SECTION 1. Identification of the subs	stance/mixture and	of the company	/undertaking
1.1. Product identifier			
Product name	U-BOND ULTRA 1min - 2k	art A	
.2. Relevant identified uses of the substance or m	ixture and uses advised ag	ainst	
Intended use	Two components, polyure	thane based, adhesiv	/e.
Identified Uses	Industrial	Professional	Consumer
SEALANTS AND ADHESIVES FORMULATIONS IN INDUSTRY	SU: 10. ERC: 2. PROC: 3, 4, 5, 8a, 8b, 9. PC: 1.		
INDUSTRIAL APPLICATIONS OF SEALANTS		-	-
AND ADHESIVES	SU: 17, 19. ERC: 5, 8b. PROC: 10, 8a, 8b. PC: 1.	SU: 17, 19. ERC: 5, 8b. PROC: 10, 8a, 8b. PC: 1.	
CHEMICAL SUBSTANCE USE IN			-
LABORATORY, INDUSTRIAL	PROC: 15. PC: 1, 21.	-	-
I.3. Details of the supplier of the safety data sheet			
Name	N.P.T. S.R.L. A SOCIO UN	ICO	
Full address District and Country	via Guido Rossa 2	Oreenallana	
	40053 Valsamoggia - Loo Italy Tel. +39 051 969109 Fax +39 051 969837	. Crespenano	(BO)
e-mail address of the competent person responsible for the Safety Data Sheet	infoSDS@nptsrl.com		
1.4. Emergency telephone number			
For urgent inquiries refer to	Laboratories and manufa +39 0382 400140 (avaiable 8.30-12.30, 13.30-17.00).		d'Ardenghi (PV) ay, only in the following office hours:
SECTION 2. Hazards identification			
2.1. Classification of the substance or mixture			
The product is classified as hazardous pursuant to and supplements). The product thus requires a safe Any additional information concerning the risks for h	ety datasheet that complies w	th the provisions of (El	J) Regulation 2015/830.
Hazard classification and indication: Eye irritation, category 2	H319	Causes serious	eye irritation.
			- -



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SECTION 2. Hazards identification ... / >>

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements. Hazard pictograms: Signal words: Warning Hazard statements: H319 Causes serious eye irritation. Precautionary statements: P280 Wear eye protection / face protection. P337+P313 If eye irritation persists: Get medical advice / attention. P264 Wash hands thoroughly after handling. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

```
      1,1',1'',1'''-ETHYLENEDINITRILOTETRAPROPAN-2-OL

      CAS
      102-60-3
      47,5 \leq x < 50</td>
      Eye Irrit. 2 H319

      EC
      203-041-4
      INDEX

      GLYCERYL POLY(OXYPROPYLENE)TRIAMINE

      CAS
      64852-22-8
      2,5 \leq x < 3</td>
      Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412

      EC
      INDEX
```

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

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



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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 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. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. 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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

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

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany): 10

7.3. Specific end use(s)



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SECTION 8. Exposure controls/personal protection

8.1. Control parameters

		1,1',1'',1''	-ETHYLENEDII	NITRILOTETR	APROPAN-2-OL				
Predicted no-effect con	ncentration	- PNEC							
Normal value in fresh	n water					0,085	mg/l		
Normal value in marine water 0,0085 mg/l									
Normal value for fres	Normal value for fresh water sediment 0,193 mg/kg								
Normal value for marine water sediment 0,0193 mg/kg									
Normal value for water, intermittent release 1,51 mg/l									
Normal value of STP microorganisms 70 mg/l									
Normal value for the	Normal value for the terrestrial compartment 0,0183 mg/kg								
Health - Derived no-eff	ect level - D	NEL / DMEL							
	Effects or	n consumers		Effects on workers					
Route of exposure	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic	
	local	systemic	local	systemic		systemic	local	systemic	
Oral				2,5					
				mg/kg/d					
Inhalation				8,7				29,4	
				mg/m3				mg/m3	
Skin				2,5				4,2	
				mg/kg/d				mg/kg/d	

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

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.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

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

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 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, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties
Appearance
Colour
Odour
Odour threshold

Value liquid black Not available Not available Information



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SECTION 9. Physical and chemical properties .../>>

VOC (Directive 2010/75/EC) :	
VOC (volatile carbon) :	

SECTION 10. Stability and reactivity

10.1. Reactivity

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

0 0

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.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

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SECTION 11. Toxicological information .../>>

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: LD50 (Oral) of the mixture: LD50 (Dermal) of the mixture: Not classified (no significant component) Not classified (no significant component) Not classified (no significant component)

GLYCERYL POLY(OXYPROPYLENE)TRIAMINE LD50 (Oral) LD50 (Dermal)

2690 mg/kg 12500 mg/kg

1,1',1",-ETHYLENEDINITRILOTETRAPROPAN-2-OLLD50 (Oral)2890 mg/kg Rattus sp.LD50 (Dermal)> 2000 mg/kg Rattus sp.

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

12.1. Toxicity

GLYCERYL POLY(OXYPROPYLENE)TRIAMINE LC50 - for Fish 68 mg/l/96h

12.2. Persistence and degradability



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SECTION 12. Ecological information ... / >>

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

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.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

Not applicable 14.2. UN proper shipping name

Not applicable 14.3. Transport hazard class(es)

Not applicable 14.4. Packing group

Not applicable 14.5. Environmental hazards

Not applicable 14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC:

None

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

Product	
Point	3
Contained substance	
Point	20

DI-N-BUTYLBIS(DODECYLTHIO)TIN Reg. no.: 01-2119841260-50-0000



U-BOND ULTRA 1min - 2K part A

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SECTION 15. Regulatory information ... / >>

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (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 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

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

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

Eye Da Eye Irr Skin Ir Aquati H318 H319 H315 H412	it. 2	Serious eye damage, category 1 Eye irritation, category 2 Skin irritation, category 2 Hazardous to the aquatic environment, chronic toxicity, category 3 Causes serious eye damage. Causes serious eye irritation. Causes skin irritation. Harmful to aquatic life with long lasting effects.
Use descr	iptor system:	
ERC		Formulation into mixture
ERC	5	Use at industrial site leading to inclusion into/onto article
ERC	8b	Widespread use of reactive processing aid (no inclusion into or onto article, indoor)
PC	1	Adhesives, sealants
PC	21	Laboratory chemicals
PROC	10	Roller application or brushing
PROC		Use as laboratory reagent
PROC	3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled
		exposure or processes with equivalent containment condition
PROC		Chemical production where opportunity for exposure arises
PROC		Mixing or blending in batch processes
PROC		Transfer of substance or mixture (charging and discharging) at non- dedicated facilities
PROC		Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC		Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
SU	10	Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
SU	17	General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment
SU	19	Building and construction work

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



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SECTION 16. Other information ... / >>

- LC50: Lethal Concentration 50%- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: 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 (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 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
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.

The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review: The following sections were modified: 01 / 02 / 03 / 08 / 09 / 11 / 12 / 15.



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U-BOND ULTRA 1min - 2K part B

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

1. Product identifier	stance/mixture				
Product name	U-BOND ULTRA 1r	nin - 2K part B			
2. Relevant identified uses of the substance or n	nixture and uses adv	vised against			
Intended use	Two components, polyurethane based, adhesive.				
Identified Uses SEALANTS AND ADHESIVES FORMULATIONS	Industrial	Profess	ional	Consumer	
IN INDUSTRY	SU: 10. ERC: 2. PROC: 3, 4, 5, 8a, 8 PC: 1.	8b, 9.			
INDUSTRIAL APPLICATIONS OF SEALANTS		-		-	
AND ADHESIVES	SU: 17, 19. ERC: 5, 8b. PROC: 10, 8a, 8b. PC: 1.	SU: 17, ERC: 5, PROC: ⁻ PC: 1.			
CHEMICAL SUBSTANCE USE IN				-	
LABORATORY, INDUSTRIAL	PROC: 15. PC: 1, 21.	-		-	
3. Details of the supplier of the safety data sheet	:				
Name	N.P.T. S.R.L. A SO				
Full address	via Guido Rossa 2		llana		
District and Country	40053 Valsamogg Italy Tel. +39 051 96	9109	nano	(BO)	
e-mail address of the competent person	Fax +39 051 96	9837			
responsible for the Safety Data Sheet	infoSDS@nptsrl.co	om			
4. Emergency telephone number					
For urgent inquiries refer to	Laboratories and r +39 0382 400140 (a 8.30-12.30, 13.30-1	avaiable from Mo		ra d'Ardenghi (PV) day, only in the following office hours	
ECTION 2. Hazards identification					
1. Classification of the substance or mixture					
1. Classification of the substance or mixture The product is classified as hazardous pursuant to and supplements). The product thus requires a saf Any additional information concerning the risks for	ety datasheet that con	nplies with the pro	visions of (I	EU) Regulation 2015/830.	
The product is classified as hazardous pursuant to and supplements). The product thus requires a safe	ety datasheet that con	nplies with the pro	visions of (I	EU) Regulation 2015/830.	
The product is classified as hazardous pursuant to and supplements). The product thus requires a safe Any additional information concerning the risks for Hazard classification and indication: Carcinogenicity, category 2	ety datasheet that con health and/or the envir I	nplies with the pro ronment are giver	visions of (I in sections uspected of c	EU) Regulation 2015/830. 11 and 12 of this sheet. ausing cancer.	
The product is classified as hazardous pursuant to and supplements). The product thus requires a safe Any additional information concerning the risks for Hazard classification and indication: Carcinogenicity, category 2 Acute toxicity, category 4	ety datasheet that con health and/or the envi l l	H351 SI H332 H	visions of (I i in sections uspected of c armful if inha	EU) Regulation 2015/830. 11 and 12 of this sheet. ausing cancer. led.	
The product is classified as hazardous pursuant to and supplements). The product thus requires a safe Any additional information concerning the risks for Hazard classification and indication: Carcinogenicity, category 2	ety datasheet that con health and/or the envi l l	nplies with the pro ronment are giver H351 St H332 Ha H373 M	visions of (I i in sections uspected of c armful if inha	EU) Regulation 2015/830. 11 and 12 of this sheet. ausing cancer. led. nage to organs through prolonged or	
The product is classified as hazardous pursuant to and supplements). The product thus requires a safe Any additional information concerning the risks for Hazard classification and indication: Carcinogenicity, category 2 Acute toxicity, category 4 Specific target organ toxicity - repeated exposure category 2 Eye irritation, category 2	ety datasheet that con health and/or the envi I re, I	H351 Summer tare giver H351 Summer tare giver H332 Ha H373 M re H319 Ca	visions of (I in sections uspected of c armful if inha ay cause dar peated expos auses serious	EU) Regulation 2015/830. 11 and 12 of this sheet. ausing cancer. led. nage to organs through prolonged or sure. s eye irritation.	
The product is classified as hazardous pursuant to and supplements). The product thus requires a safe Any additional information concerning the risks for Hazard classification and indication: Carcinogenicity, category 2 Acute toxicity, category 4 Specific target organ toxicity - repeated exposure category 2 Eye irritation, category 2 Skin irritation, category 2	ety datasheet that con health and/or the envi re, f i i i i i i i i i i i i i i i i i i i	H351 Summer tare given H351 Summer tare given H332 Ha H373 M H319 Ca H315 Ca	visions of (I i in sections uspected of c armful if inha ay cause dar peated expos auses serious auses skin in	EU) Regulation 2015/830. 11 and 12 of this sheet. ausing cancer. led. nage to organs through prolonged or sure. s eye irritation. itation.	
The product is classified as hazardous pursuant to and supplements). The product thus requires a safe Any additional information concerning the risks for Hazard classification and indication: Carcinogenicity, category 2 Acute toxicity, category 4 Specific target organ toxicity - repeated exposure category 2 Eye irritation, category 2	ety datasheet that con health and/or the envi re, f i i i i i i i i i i i i i i i i i i i	H351 Summer tare given H351 Summer tare given H332 Ha H373 M H319 Ca H315 Ca	visions of (I i in sections uspected of c armful if inha ay cause dar peated expos auses serious auses skin in	EU) Regulation 2015/830. 11 and 12 of this sheet. ausing cancer. led. nage to organs through prolonged or sure. s eye irritation.	



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SECTION 2. Hazards identification ... / >>

Skin sensitization, category 1

H317

May cause an allergic skin reaction.

2.2. Label elements

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

Hazard pictograms:



Signal words:	Danger
Hazard statements:	
H351	Suspected of causing cancer.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
EUH204	Contains isocyanates. May produce an allergic reaction.
Precautionary statements	:
P304+P340	IF INHALED: remove person to fresh air and keep comfortable for breathing.
P201	Obtain special instructions before use.
P308+P313	IF exposed or concerned: Get medical advice / attention.
P284	[In case of inadequate ventilation] wear respiratory protection.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

Contains: DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.

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

3.2. Mixtures

Contains:Identificationx = Conc. %Classification 1272/2008 (CLP)DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.
CAS9016-87-9 $96 \le x < 100$ Carc. 2 H351, Acute Tox. 4 H332, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315,
STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317EC

INDEX

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.

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SECTION 4. First aid measures ... / >>

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

Specific information on symptoms and effects caused by the product are unknown.

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.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF 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. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. 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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

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

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away



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SECTION 7. Handling and storage ... / >>

from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany): 10

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

TLV-ACGIH ACGIH 2019

Threshold Limit	Value				
Туре	Country	TWA/8h		STEL/15r	min
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH			0,005		

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

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.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

HAND PROTECTION

Protect your hands with work gloves, category III (ref. standard EN 374). For the final choice of material you need to assess the type of use. In case of contact for the short term or as protection against splashes, use gloves made of nitrile (0.3mm thickness, permeation time >480 min.). In the event of continued exposure use butyl rubber gloves (0.4mm thickness, permeation time > 480 min.). Contaminated gloves should be removed.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 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

In case of exceeding the threshold value (eg, TLV-TWA) of the substance or one or more of the substances present in the product, it is advisable to wear a mask with filter type A for organic vapors, the class (1, 2 or 3) must be chosen according to the limit concentration of use (1000, 5000 or 10000 ppm) (ref. standard EN 14387).

ENVIRONMENTAL EXPOSURE CONTROLS

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value
Appearance	liquid
Colour	copper
Odour	Not available
Odour threshold	Not available
pH	Not available
Melting point / freezing point	> 300 °C
Initial boiling point	Not available
Boiling range	205 °C
Flash point	205 °C

Information



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SECTION 9. Physical and chemical properties .../>>

Evaporation rate Flammability (solid, gas) Lower inflammability limit Upper inflammability limit Lower explosive limit Upper explosive limit Vapour pressure Vapour density Relative density Solubility Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity Explosive properties Oxidising properties 9.2. Other information	>	Not available Not available Not available Not available Not available 0,01 Pa Not available 1,17 Not available 600 °C Not available 3300 mPas Not available Not available
VOC (Directive 2010/75/EC) : VOC (volatile carbon) :		0
		-

SECTION 10. Stability and reactivity

10.1. Reactivity

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

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.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ΕN



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SECTION 11. Toxicological information ... / >>

LC50 (Inhalation) of the mixture: LD50 (Oral) of the mixture: LD50 (Dermal) of the mixture:

1,5 mg/l Not classified (no significant component) Not classified (no significant component)

DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES. LD50 (Oral) > 10000 mg/kg Rattus sp.

- > 9400 mg/kg Oryctolagus sp.
- 1,5 mg/l/4h Rattus sp.

SKIN CORROSION / IRRITATION

LC50 (Inhalation)

LD50 (Dermal)

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin Sensitising for the respiratory system

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Suspected of causing cancer

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause respiratory irritation

STOT - REPEATED EXPOSURE

May cause damage to organs

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

12.1. Toxicity

DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.LC50 - for Fish> 1000 mg/l/96h Danio rerioEC50 - for Algae / Aquatic Plants> 1640 mg/l/72h Scenedesmus subspicatusChronic NOEC for Crustacea> 10 mg/l Daphnia magna

12.2. Persistence and degradability

DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES. NOT rapidly degradable

12.3. Bioaccumulative potential



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SECTION 12. Ecological information ... / >>

12.4. Mobility in soil

Information not available

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. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

Not applicable **14.2. UN proper shipping name**

Not applicable 14.3. Transport hazard class(es)

Not applicable 14.4. Packing group

Not applicable 14.5. Environmental hazards

Not applicable 14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC:

None

Restrictions	relating to the	product or	contained	substances	pursuant to	Annex	XVII t	o EC	Regulation	1907/2006
Product										
Point		3								

<u>Substances in Candidate List (Art. 59 REACH)</u> On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH) None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:



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SECTION 15. Regulatory information ... / >>

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

A chemical safety assessment has been performed for the following contained substances DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.

SECTION 16. Other information

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

Carc. 2	2	Carcinogenicity, category 2
Acute	Tox. 4	Acute toxicity, category 4
STOT	RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Irr	it. 2	Eye irritation, category 2
Skin Ir	rit. 2	Skin irritation, category 2
STOT	SE 3	Specific target organ toxicity - single exposure, category 3
Resp.	Sens. 1	Respiratory sensitization, category 1
Skin S	ens. 1	Skin sensitization, category 1
H351		Suspected of causing cancer.
H332		Harmful if inhaled.
H373		May cause damage to organs through prolonged or repeated exposure.
H319		Causes serious eye irritation.
H315		Causes skin irritation.
H335		May cause respiratory irritation.
H334		May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317		May cause an allergic skin reaction.
EUH20	4	Contains isocyanates. May produce an allergic reaction.
11		
	iptor system:	Formulation into mixture
ERC		
ERC		Use at industrial site leading to inclusion into/onto article
ERC		Widespread use of reactive processing aid (no inclusion into or onto article, indoor)
PC PC	1 21	Adhesives, sealants
		Laboratory chemicals
PROC		Roller application or brushing
PROC PROC		Use as laboratory reagent
PROC	3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled
PROC	4	exposure or processes with equivalent containment condition Chemical production where opportunity for exposure arises
PROC		
PROC		Mixing or blending in batch processes
		Transfer of substance or mixture (charging and discharging) at non- dedicated facilities
PROC		Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC		Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
SU	10	Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
SU	17	General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment
SU	19	Building and construction work

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



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SECTION 16. Other information ... / >>

- 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
- 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 (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 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
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.

The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review: The following sections were modified: 01 / 02 / 03 / 09 / 11 / 15.