

Revision nr.3 Dated 03/09/2021 Printed on 03/09/2021

Replaced revision:2 (Dated 01/12/2020)

ΕN

# **Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

# SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name **MASTERBOND 1HR** 

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

Intended use One component adhesive for the automotive industry.

**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. SU: 17, 19. ERC: 5, 8b. ERC: 5, 8b. PROC: 10, 8a, 8b. PROC: 10, 8a, 8b. PC: 1. PC: 1. **CHEMICAL SUBSTANCE USE IN** LABORATORY, INDUSTRIAL PROC: 15. PC: 1, 21.

1.3. Details of the supplier of the safety data sheet

Name **WAYSIDE ADHESIVES LTD** 

Full address 23 MAIN ROAD, RADCLIFFE ON TRENT, UK

District and Country

01159 33 33 21

e-mail address of the competent person

**INFO@WAYSIDEADHESIVES.COM** responsible for the Safety Data Sheet

1.4. Emergency telephone number

For urgent inquiries refer to WAYSIDE ADHESIVES LTD.

# **SECTION 2. Hazards identification**

# 2.1. Classification of the substance or mixture

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 (EU) Regulation 2015/830. 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:

Respiratory sensitization, category 1

H334

May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

EN



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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: Danger

Hazard statements:

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**EUH204** Contains isocyanates. May produce an allergic reaction.

Precautionary statements:

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.
P284 [In case of inadequate ventilation] wear respiratory protection.

P304+P340 IF INHALED: remove person to fresh air and keep comfortable for breathing. P342+P311 If experiencing respiratory symptoms: call a POISON CENTER / doctor / . . .

**P501** Dispose of contents / container according to local regulation.

Contains: DIPHENYLMETHANE-4,4'-DIISOCYANATE

As from 24 August 2023 adequate training is required before industrial or professional use.

#### 2.3. Other hazards

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

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

# 3.2. Mixtures

Contains:

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

**DIISONONYL PHTHALATE** 

CAS 28553-12-0  $40 \le x < 42,5$ 

EC 249-079-5

INDEX

Reg. no. 01-2119430798-28

CARBON BLACK.

CAS 1333-86-4  $30 \le x < 32,5$ 

EC 215-609-9

INDEX

Reg. no. 01-2119384822-32 DIPHENYLMETHANE-4,4'-DIISOCYANATE

CAS 101-68-8 0,809 ≤ x < 0,909 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 H317,

Classification note/notes according to Annex VI to the CLP Regulation: 2, C

EC 202-966-0 INDEX 615-005-00-9

Reg. no. 01-2119457014-47-XXXX





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

# 2,2 - DIMORPHOLINODIETHYL ETHER

CAS 6425-39-4  $0,45 \le x < 0,5$  Eye Irrit. 2 H319

EC 229-194-7

**INDEX** 

Reg. no. 01-2119969278-20-xxxx

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

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.

ΕN



# SECTION 6. Accidental release measures .../>>

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)

Information not available

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

#### 8.1. Control parameters

Regulatory References:

CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2019
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH
		HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των
		οδηγιών 2017/2398/EE, 2019/130/EE και 2019/983/EE «για την τροποποίηση της οδηγίας
		2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με
		την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία"»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki
		tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama
17.4	1. 1.	na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
POL	Polska	Rozporządzenie Ministra Rodziny, Pracy i Polityki Społecznej z dnia 12 czerwca 2018 r. w sprawie
		najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska
	_	gränsvärden (AFS 2018:1)
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
JDIT	TLV-ACGIH	ACGIH 2020



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

	DIISONONYL PHTHALATE								
Threshold Limit	Threshold Limit Value								
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	3	0,171	10	0,57				
TLV	DNK	3							
GVI/KGVI	HRV	5							
NGV/KGV	SWE	3		5 (C)					
WEL	GBR	5							

	CARBON BLACK.							
<b>Threshold Limit</b>	Value							
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
TLV	CZE	2						
MAK	DEU	4				INHAL		
MAK	DEU	1,5				RESP		
VLA	ESP	3,5						
VLEP	FRA	3,5				INHAL		
HTP	FIN	3,5		7				
VLEP	ITA	3				INHAL		
TLV	NOR	3,5						
NGV/KGV	SWE	3						
WEL	GBR	3,5		7		INHAL		

			DIPH	ENYLMETHAN	E-4,4'-DIISO	CYANATE			
hreshold Limit \	/alue								
Type	Country	TWA/8h		STEL/15r	min	Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	0,05		0,1					
AGW	DEU	0,05		0,05					
MAK	DEU	0,05		0,05		INHAL			
MAK	DEU	0,05		0,05		SKIN			
TLV	DNK	0,05	0,005	0,1	0,01				
VLA	ESP	0,052	0,005						
VLEP	FRA	0,1	0,01	0,2	0,02				
TLV	GRC	0,2		0,2					
AK	HUN	0,05		0,05					
TLV	NOR	0,05	0,005						
NDS/NDSCh	POL	0,05		0,2					
NGV/KGV	SWE	0,03	0,002	0,05 (C)	0,005 (C)				
NPEL	SVK	0,05		0,05					
TLV-ACGIH		0,051	0,005						
redicted no-effe	ct concentra	ation - PNEC	;						
Normal value ir	n fresh water						1	mg/l	
Normal value in	n marine wate	er					0,1	mg/l	
Normal value for	or water, inte	rmittent relea	se				10	mg/l	
Normal value o	f STP microo	organisms					1	mg/l	
Normal value for	or the terresti	rial compartn	nent				1	mg/kg	
Inhalation	0,05	5 0,0	5	0,025	0,025	0,1		0,05	
	mg/	m3		mg/m3		mg/m3		mg/m3	



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

2,2 - DIMORPHOLINODIETHYL ETHER		
Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,1	mg/l
Normal value in marine water	0,01	mg/l
Normal value for fresh water sediment	8,2	mg/kg
Normal value for marine water sediment	0,82	mg/kg
Normal value for water, intermittent release	1	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	1,58	mg/kg

Oral	VND	0,5 mg/kg/d		
Inhalation	VND	1,8 mg/m3	VND	7,28 mg/m3
Skin	VND	0,5 mg/kg/d	VND	1 mg/kg/d

(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.

# 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.

#### 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 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**

**Properties** 

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

•		
Appearance	paste	
Colour	black	
Odour	characteristic	
Odour threshold	Not available	
pН	Not applicable	
Melting point / freezing point	Not available	
Initial boiling point	270 °C	
Boiling range	Not available	
Flash point	Not applicable	
Evaporation rate	Not available	
Flammability (solid, gas)	Not available	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	

Value

Information

Reason for missing data:Insoluble in water.

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

Not available Lower explosive limit Upper explosive limit Not available Vapour pressure Not available Vapour density Not available 1.15 - 1.19 Relative density Solubility Not available Partition coefficient: n-octanol/water Not available 375 Auto-ignition temperature Not available Decomposition temperature Viscosity 400000 - 470000 Explosive properties not explosive Oxidising properties non oxidizing

#### 9.2. Other information

Information not available

# **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**

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.

# 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



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# SECTION 11. Toxicological information .../>>

# **ACUTE TOXICITY**

ATE (Inhalation) of the mixture:

ATE (Oral) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

2,2 - DIMORPHOLINODIETHYL ETHER

 LD50 (Oral)
 2025 mg/kg Rattus sp.

 LD50 (Dermal)
 3038 mg/kg Oryctolagus sp.

CARBON BLACK.

 LD50 (Oral)
 > 8000 mg/kg Rattus sp.

 LD50 (Dermal)
 > 3000 mg/kg Oryctolagus sp.

 LC50 (Inhalation)
 > 27 mg/l/1h Rattus sp.

DIPHENYLMETHANE-4,4'-DIISOCYANATE

 LD50 (Oral)
 > 2000 mg/kg Rattus sp.

 LD50 (Dermal)
 > 9400 mg/kg Oryctolagus sp.

 LC50 (Inhalation)
 1,5 mg/l/4h Rattus sp.

DIISONONYL PHTHALATE

LD50 (Oral) > 10000 mg/kg Rat - Sprague-Dawley
LD50 (Dermal) > 3160 mg/kg Rabbit - New Zeland white
LC50 (Inhalation) > 4,4 mg/l Rat - Sprague-Dawley

# SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

#### SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

#### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the respiratory system

# **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**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

# 12.1. Toxicity



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# SECTION 12. Ecological information .../>>

2,2 - DIMORPHOLINODIETHYL ETHER

LC50 - for Fish > 2150 mg/l/96h

EC50 - for Crustacea > 100 mg/l/48h Daphnia sp.

EC50 - for Algae / Aquatic Plants > 100 mg/l/72h Chronic NOEC for Algae / Aquatic Plants 100 mg/l

CARBON BLACK.

LC50 - for Fish > 1000 mg/l/96h Brachydanio rerio

EC50 - for Algae / Aquatic Plants > 10000 mg/l/72h Scenedesmus subspicatus

DIPHENYLMETHANE-4,4'-DIISOCYANATE

LC50 - for Fish > 1000 mg/l/96h Danio rerio

EC50 - for Algae / Aquatic Plants > 1640 mg/l/72h Scenedesmus subspicatus

Chronic NOEC for Crustacea > 10 mg/l Daphnia magna

Chronic NOEC for Algae / Aquatic Plants 1640 mg/l Desmodesmus subspicatus

**DIISONONYL PHTHALATE** 

LC50 - for Fish > 102 mg/l/96h Danio rerio EC50 - for Crustacea > 74 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 88 mg/l/72h Scenedesmus subspicatus

#### 12.2. Persistence and degradability

2,2 - DIMORPHOLINODIETHYL ETHER

NOT rapidly degradable

DIISONONYL PHTHALATE

Solubility in water < 0,1 mg/l

Rapidly degradable

#### 12.3. Bioaccumulative potential

DIISONONYL PHTHALATE

Partition coefficient: n-octanol/water 8,8 BCF > 3

12.4. Mobility in soil

DIISONONYL PHTHALATE
Partition coefficient: soil/water

Partition coefficient: soil/water 6

# 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 ≥ 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.



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# SECTION 14. Transport information .../>>

# 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

<u>Product</u>

Point 3
Contained substance

Point 52 DIISONONYL PHTHALATE

Reg. no.: 01-2119430798-28

Point 75 CARBON BLACK.

Reg. no.: 01-2119384822-32

Point 56-75 DIPHENYLMETHANE-4,4'-DIISOCYANATE

Reg. no.: 01-2119457014-47-XXXX

Point 74 DIISOCYANATES

Regulation (EC) No. 2019/1148 - on the marketing and use of explosives precursors

Not applicable

# Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  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



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# SECTION 15. Regulatory information .../>>

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.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 1: Low hazard to waters

#### 15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances DIPHENYLMETHANE-4.4'-DIISOCYANATE

# **SECTION 16. Other information**

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

Carc. 2 Carcinogenicity, category 2
Acute Tox. 4 Acute toxicity, category 4

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

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

Resp. Sens. 1 Respiratory sensitization, category 1
Skin Sens. 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.

**EUH204** Contains isocyanates. May produce an allergic reaction.

Use descriptor system:

ERC 2 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)

PC1Adhesives, sealantsPC21Laboratory chemicalsPROC10Roller application or brushingPROC15Use 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 4 Chemical production where opportunity for exposure arises

PROC 5 Mixing or blending in batch processes

PROC 8a Transfer of substance or mixture (charging and discharging) at non- dedicated facilities
PROC 8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC 9 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
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level

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# SECTION 16. Other information .../>>

- 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)
- 17. Regulation (EU) 2019/1148
- 18. Regulation (EU) 2020/217 (XIV 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.

# CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12

Changes to previous review:

The following sections were modified:

02 / 03 / 08 / 09 / 11 / 12 / 15.