

833 - NORDPUR ROOF SG/SG-P (B)

Printed on 18/05/2023
Page n. 1 / 13
Replaced revision:3 (Dated 27/11/2019)

(TV)

ΕN

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Code: 833

Product name NORDPUR ROOF SG/SG-P (B)

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

WATERPROOFING MEMBRANE

1.3. Details of the supplier of the safety data sheet

NORD RESINE S.p.A. Name Full address Via Fornace Vecchia, 79 District and Country Susegana

Italia

Tel. +39 0438-437511 Fax +39 0438-435155

e-mail address of the competent person

responsible for the Safety Data Sheet annabreda@nordresine.com

NORD RESINE S.p.A. Supplier:

1.4. Emergency telephone number

For urgent inquiries refer to +39 0438 437511

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

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:

Carcinogenicity, category 2	H351	Suspected of causing cancer.
Acute toxicity, category 4	H332	Harmful if inhaled.
Specific target organ toxicity - repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Respiratory sensitization, category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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



833 - NORDPUR ROOF SG/SG-P (B)

Revision nr.4 Dated 18/05/2023 Printed on 18/05/2023

Page n. 2 / 13 Replaced revision:3 (Dated 27/11/2019)

SECTION 2. Hazards identification .../>>

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.

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

H317 May cause an allergic skin reaction.

EUH204 Contains isocyanates. May produce an allergic reaction.

Precautionary statements:

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.

Wear protective gloves/ protective clothing / eye protection / face protection. P280 P342+P311 If experiencing respiratory symptoms: call a POISON CENTER / doctor. 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.

Contains: DIPHENYLMETHANE-4,4'-DIISOCYANATE

METHYLENEBIS(ISOCYANATOBENZENE) HOMOPOLYMER

2 4'-METHYLENEBIS(PHENYL ISOCYANATE)

1,2-Propanediol, ethylene oxide, propylene oxide, diphenylmethanediisocyanate polymer

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

VOC (Directive 2004/42/EC):

Two - pack performance coatings.

VOC given in g/litre of product in a ready-to-use condition : 0.00 500.00

- Catalysed with: 110 00 % NORDPUR ROOF SG (A)

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

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

1,2-Propanediol, ethylene oxide, propylene oxide, diphenylmethanediisocyanate polymer

103837-45-2 $50 \le x < 75$ Resp. Sens. 1 H334, Skin Sens. 1 H317 CAS EC

INDEX

FC.

DIPHENYLMETHANE-4,4'-DIISOCYANATE

101-68-8 $19 \le x < 25$ 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 according to Annex VI to the CLP Regulation: 2, C

202-966-0 Skin Irrit. 2 H315: ≥ 5%, Eye Irrit. 2 H319: ≥ 5%, Resp. Sens. 1 H334: ≥ 0,1%,

STOT SE 3 H335: ≥ 5%

INDFX 615-005-00-9 STA Inhalation mists/powders: 1,5 mg/l

REACH Reg. 01-2119457014-47

609-645-8

METHYLENEBIS(ISOCYANATOBENZENE) HOMOPOLYMER

39310-05-9 Carc. 2 H351, Acute Tox. 4 H332, STOT RE 2 H373, Eye Irrit. 2 H319, Skin CAS $4 \le x < 8$

Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317

LC50 Inhalation mists/powders: 2,24 mg/l/1h

EC INDEX



833 - NORDPUR ROOF SG/SG-P (B)

Revision nr.4 Dated 18/05/2023 Printed on 18/05/2023 Page n. 3 / 13 Replaced revision:3 (Dated 27/11/2019)

SECTION 3. Composition/information on ingredients

PROPYLENE CARBONATE

FC

CAS 108-32-7 $1 \le x < 4$ Eye Irrit. 2 H319

EC 203-572-1 INDEX 607-194-00-1 REACH Req. 01-2119537232-48

2 4'-METHYLENEBIS(PHENYL ISOCYANATE)

CAS 5873-54-1 1 ≤ x < 4 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 according to Annex VI to the CLP Regulation: 2, C Skin Irrit. 2 H315: ≥ 5%, Eye Irrit. 2 H319: ≥ 5%, Resp. Sens. 1 H334: ≥ 0,1%,

STOT SE 3 H335: ≥ 5%

INDEX 615-005-00-9 STA Inhalation vapours: 11 mg/l, STA Inhalation mists/powders: 1,5 mg/l

REACH Reg. 01-2119480143-45

227-534-9

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.



833 - NORDPUR ROOF SG/SG-P (B)

Revision nr.4 Dated 18/05/2023 Printed on 18/05/2023 Page n. 4 / 13 Replaced revision:3 (Dated 27/11/2019)

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

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.

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
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «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
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
	TLV-ACGIH	ACGIH 2021



833 - NORDPUR ROOF SG/SG-P (B)

Printed on 18/05/2023 Page n. 5 / 13 Replaced revision:3 (Dated 27/11/2019)

SECTION 8. Exposure controls/personal protection

			DIPH	ENYLMETHAN	E-4,4'-DIISO	CYANATE			
reshold Limit V	'alue								
Type	Country	TWA/8h	I	STEL/15r	STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	0,05		0,1					
AGW	DEU	0,05		0,05 (C)		INHAL	C = 0.1 mg	ı/m3	
MAK	DEU	0,05		0,05 (C)		INHAL	C = 0.1 mg	J/m3	
MAK	DEU	0,05		0,05		SKIN	C = 0.1 mg	ı/m3	
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					
NDS/NDSCh	POL	0,03		0,09					
TLV	ROU			0,15					
MV	SVN	0,05		0,05		INHAL			
MV	SVN		0,005		0,005	SKIN			
TLV-ACGIH		0,051	0,005						
redicted no-effe	ct concentr	ation - PNI	EC						
Normal value in	fresh water						1	mg/l	
Normal value in	marine wat	er					0,1	mg/l	
ealth - Derived r	o-effect lev	el - DNEL	/ DMEL						
	Effects on consumers				Effects on wo	rkers			
Route of expos	ure Acu	te A	cute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca		ystemic	local	systemic	local	systemic	local	systemic
Oral	VNI		-						
			ng/kg bw/d						
Inhalation	0,0		,05	0,025	0,025	0,1	0,1	0,05	0,05
	mg/		ng/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin	17,2		-			28,7	50		
	mg/	cm2 m	ng/kg bw/d			mg/kg/d	mg/kg/d		

2 4'-METHYLENEBIS(PHENYL ISOCYANATE)										
Predicted no-effect concentration - PNEC										
Normal value in fresh water 1 mg/l										
Normal value in marine water 0,1 mg/l										
Normal value of STP microorganisms 1 mg/l										
Health - Derived no-effect level - DNEL / DMEL										
	Effects on consumers Effects				Effects on v	Effects on workers				
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic		
	local	systemic	local	systemic	local	systemic	local	systemic		
Oral	VND	20								
		mg/kg/d								
Inhalation	0,05	0,05	0,025	0,025	0,1	0,1	0,05	0,05		
	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3		
Skin	17,2	25			VND	50				
	mg/kg/d	mg/kg/d				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.

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 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 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.



833 - NORDPUR ROOF SG/SG-P (B)

Revision nr.4 Dated 18/05/2023 Printed on 18/05/2023 Page n. 6 / 13 Replaced revision:3 (Dated 27/11/2019)

Information

SECTION 8. Exposure controls/personal protection/

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 Value Appearance liquid Colour blue characteristic Odour Melting point / freezing point Not available Initial boiling point 200 °C. Flammability Not available Lower explosive limit Not available Upper explosive limit Not available Flash point 200 Not available Auto-ignition temperature Not available Kinematic viscosity Not available Not available Solubility Partition coefficient: n-octanol/water Not available Vapour pressure Not available Density and/or relative density ka/l Relative vapour density Not available Particle characteristics Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU) 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.

DIPHENYLMETHANE-4,4'-DIISOCYANATE

Decomposes at 274°C/525°F.

With water it develops carbon dioxide and forms an insoluble solid polymer and consequently any wet material recovered must be stored in open containers.

10.2. Chemical stability

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



833 - NORDPUR ROOF SG/SG-P (B)

Revision II.24 Dated 18/05/2023 Printed on 18/05/2023 Page n. 7 / 13 Replaced revision:3 (Dated 27/11/2019)

SECTION 10. Stability and reactivity .../>>

10.3. Possibility of hazardous reactions

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

DIPHENYLMETHANE-4,4'-DIISOCYANATE

May react dangerously with: alcohols,amines,ammonia,sodium hydroxide,acids,water,strong acids,strong bases.

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

DIPHENYLMETHANE-4,4'-DIISOCYANATE

May develop: nitric oxide,carbon oxides,hydrogen cyanide.

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 hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

DIPHENYLMETHANE-4,4'-DIISOCYANATE WORKERS: inhalation; contact with the skin.

POPULATION: inhalation of ambient air; contact with the skin of products containing the substance.

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

DIPHENYLMETHANE-4.4'-DIISOCYANATE

Causes symptoms of irritation of the eye mucous membranes, upper respiratory and digestive tract and also to the skin; lung irritation of the bronchitis type (chest pains, cough, asthmatic wheezing), neurological symptoms (dizziness, balance disorders, headaches and consciousness disturbances). In severe cases, may give rise to delayed pulmonary edema (INRS, 2009). May cause hypersensitivity pneumonia which, in the event of continuous exposure, may progress to interstitial fibrosis (INRS, 2009).

Interactive effects

DIPHENYLMETHANE-4.4'-DIISOCYANATE

Cross sensitisations with other isocyanates are possible, in particular with TDI (toluene diisocyanate).

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture: 4,05 mg/l
ATE (Inhalation - vapours) of the mixture: Acute Tox. 4
ATE (Inhalation - gas) of the mixture: Acute Tox. 4

ATE (Oral) of the mixture:

Not classified (no significant component)
ATE (Dermal) of the mixture:

Not classified (no significant component)

1,2-Propanediol, ethylene oxide, propylene oxide, diphenylmethanediisocyanate polymer

 LD50 (Dermal):
 > 9400 mg/kg Rat

 LD50 (Oral):
 > 2000 mg/kg Rat

 LC50 (Inhalation mists/powders):
 2,24 mg/l/1h Rat

DIPHENYLMETHANE-4,4'-DIISOCYANATE

STA (Inhalation mists/powders): 1,5 mg/l estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

ΕN



NORD RESINE S.p.A.

833 - NORDPUR ROOF SG/SG-P (B)

Revision nr.4 Dated 18/05/2023 Printed on 18/05/2023 Page n. 8 / 13 Replaced revision:3 (Dated 27/11/2019)

SECTION 11. Toxicological information .../>>

METHYLENEBIS(ISOCYANATOBENZENE) HOMOPOLYMER

 LD50 (Dermal):
 > 9400 mg/kg Rabbit

 LD50 (Oral):
 > 10000 mg/kg Rat

 LC50 (Inhalation mists/powders):
 2,24 mg/l/1h Rat

PROPYLENE CARBONATE

LD50 (Oral): > 5000 mg/l Rat

2 4'-METHYLENEBIS(PHENYL ISOCYANATE)

LD50 (Dermal): > 9400 mg/kg Rabbit LD50 (Oral): > 2000 mg/kg Rat

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eve irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

Sensitising for the respiratory system

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Suspected of causing cancer

DIPHENYLMETHANE-4,4'-DIISOCYANATE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999).

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

May cause respiratory irritation

Target organs

Information not available





833 - NORDPUR ROOF SG/SG-P (B)

Revision nr.4 Dated 18/05/2023 Printed on 18/05/2023 Page n. 9 / 13 Replaced revision:3 (Dated 27/11/2019)

SECTION 11. Toxicological information .../>>

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

May cause damage to organs

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

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

PROPYLENE CARBONATE

LC50 - for Fish > 1000 mg/l/96h Cyprinus carpio

EC50 - for Crustacea 1000 mg/l/48h EC50 - for Algae / Aquatic Plants > 900 mg/l/72h Algae

DIPHENYLMETHANE-4,4'-DIISOCYANATE

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

METHYLENEBIS(ISOCYANATOBENZENE) HOMOPOLYMER

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

2 4'-METHYLENEBIS(PHENYL ISOCYANATE)

LC50 - for Fish > 1000 mg/l/96h Daphnia magna

12.2. Persistence and degradability

DIPHENYLMETHANE-4,4'-DIISOCYANATE

Solubility in water 0,1 - 100 mg/l

NOT rapidly degradable

12.3. Bioaccumulative potential

DIPHENYLMETHANE-4,4'-DIISOCYANATE

Partition coefficient: n-octanol/water 4,51

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 ≥ than 0,1%.





833 - NORDPUR ROOF SG/SG-P (B)

Revision nr.4 Dated 18/05/2023 Printed on 18/05/2023 Page n. 10 / 13 Replaced revision:3 (Dated 27/11/2019)

SECTION 12. Ecological information .../>>

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. 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 or ID 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. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

3

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

Seveso Category - Directive 2012/18/EU: None

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

Product

Point



833 - NORDPUR ROOF SG/SG-P (B)

Revision nr.4 Dated 18/05/2023 Printed on 18/05/2023 Page n. 11 / 13 Replaced revision:3 (Dated 27/11/2019)

SECTION 15. Regulatory information .../>>

Contained substance

Point 56-75 2 4'-METHYLENEBIS(PHENYL ISOCYANATE)

REACH Reg.: 01-2119480143-45

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

REACH Reg.: 01-2119457014-47

Point 74 DIISOCYANATES

Regulation (EU) 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 ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 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.

VOC (Directive 2004/42/EC):

Two - pack performance coatings.

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:

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.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals



833 - NORDPUR ROOF SG/SG-P (B)

Revision nr.4 Dated 18/05/2023 Printed on 18/05/2023
Page n. 12 / 13
Replaced revision:3 (Dated 27/11/2019)

SECTION 16. Other information .../>>

- 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: 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: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term 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) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) 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) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII 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.





833 - NORDPUR ROOF SG/SG-P (B)

Revision nr.4 Dated 18/05/2023 Printed on 18/05/2023 Page n. 13 / 13 Replaced revision:3 (Dated 27/11/2019)

SECTION 16. Other information .../>>

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: 01 / 02 / 03 / 08 / 09 / 11 / 12 / 15 / 16.