

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MasterSeal M 689 PTB

Version	Revision Date:	SDS Number:	Date of last issue: 27.12.2021
1.1	20.01.2022	000000827656	Date of first issue: 27.12.2021

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

1.1 Product identifier

Trade name : MasterSeal M 689 PTB
Product code : 000000000050511590

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

Use of the Sub-
stance/Mixture : Product for construction chemicals
Recommended restrictions on use : Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company : MASTER BUILDERS SOLUTIONS NORWAY AS
Gullfotdalen 4
NO-2120 Sagstua, Norway
Telephone : +4762970020
E-mail address of person responsible for the SDS : product-safety@mbcc-group.com

1.4 Emergency telephone

ChemTel: +1-813-248-0585
National Emergency Telephone Number : GIFTINFORMASJONEN: +47-22-59-13-00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H332: Harmful if inhaled.
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, Respiratory system	H335: May cause respiratory irritation.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Respiratory sensitization, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MasterSeal M 689 PTB

Version	Revision Date:	SDS Number:	Date of last issue: 27.12.2021
1.1	20.01.2022	000000827656	Date of first issue: 27.12.2021

Specific target organ toxicity - repeated exposure, Category 2

H373: May cause damage to organs through prolonged or repeated exposure if inhaled.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal Word : Danger

Hazard Statements :

- H319 Causes serious eye irritation.
- H315 Causes skin irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements :

Prevention:

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P271 Use only outdoors or in a well-ventilated area.
P260 Do not breathe dusts or mists.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P284 In case of inadequate ventilation wear respiratory protection.
P272 Contaminated work clothing should not be allowed out of the workplace.
P264 Wash face, hands and any exposed skin thoroughly after handling.

Response:

P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Disposal:

P501 Dispose of contents/container to appropriate hazardous waste collection point.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MasterSeal M 689 PTB

Version Revision Date: SDS Number: Date of last issue: 27.12.2021
1.1 20.01.2022 000000827656 Date of first issue: 27.12.2021

Hazardous ingredients which must be listed on the label:

Diphenylmethane-4,4'-diisocyanate (MDI)

Additional Labeling

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

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : isocyanate

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
methylenediphenyl diisocyanate	26447-40-5	Acute Tox. 4; H332 Eye Irrit. 2; H319 Skin Irrit. 2; H315 STOT SE 3; H335 Skin Sens. 1; H317 Resp. Sens. 1; H334 Carc. 2; H351	>= 10 - < 70

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice : First aid personnel should pay attention to their own safety.
Immediately remove contaminated clothing.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MasterSeal M 689 PTB

Version	Revision Date:	SDS Number:	Date of last issue: 27.12.2021
1.1	20.01.2022	000000827656	Date of first issue: 27.12.2021

- If inhaled : If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.
- In case of skin contact : After contact with skin, wash immediately with plenty of water and soap.
Under no circumstances should organic solvent be used.
If irritation develops, seek medical attention.
- In case of eye contact : Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
- If swallowed : Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.
Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Harmful if inhaled.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause respiratory irritation.
Suspected of causing cancer.
May cause damage to organs through prolonged or repeated exposure.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Foam
Water spray
Dry powder
Carbon dioxide (CO₂)
- Unsuitable extinguishing media : water jet

5.2 Special hazards arising from the substance or mixture

- Hazardous combustion products : harmful vapours
nitrogen oxides
fumes/smoke
carbon black

5.3 Advice for firefighters

- Special protective equipment : Wear a self-contained breathing apparatus.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MasterSeal M 689 PTB

Version	Revision Date:	SDS Number:	Date of last issue: 27.12.2021
1.1	20.01.2022	000000827656	Date of first issue: 27.12.2021

for fire-fighters

Further information : The degree of risk is governed by the burning substance and the fire conditions.
If exposed to fire, keep containers cool by spraying with water. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Do not breathe vapour/aerosol/spray mists.
Wear eye/face protection.
If exposed to high vapour concentration, leave area immediately.
Use personal protective clothing.
Handle in accordance with good building materials hygiene and safety practice.

6.2 Environmental precautions

Environmental precautions : Contain contaminated water/firefighting water.
Do not discharge into drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Large spills should be collected mechanically (remove by pumping) for disposal.
Pick up with inert absorbent material (e.g. sand, earth etc.).
Dispose of contaminated material as prescribed.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapors/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MasterSeal M 689 PTB

Version 1.1 Revision Date: 20.01.2022 SDS Number: 000000827656 Date of last issue: 27.12.2021
Date of first issue: 27.12.2021

be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Product is not explosive.

Normal measures for preventive fire protection.

Hygiene measures : When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight.

Advice on common storage : Observe TRGS 509/510 storage rules.

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Diphenylmethane-4,4'-diisocyanate (MDI)	101-68-8	STEL	0,01 ppm	FOR-2011-12-06-1358
	Further information: Substances considered to evoke allergies when coming into touch with the eyes or airways or evoking allergies after coming into contact with the skin			
		TWA	0,005 ppm 0,05 mg/m3	FOR-2011-12-06-1358
	Further information: Substances considered to evoke allergies when coming into touch with the eyes or airways or evoking allergies after coming into contact with the skin			

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MasterSeal M 689 PTB

Version 1.1 Revision Date: 20.01.2022 SDS Number: 000000827656 Date of last issue: 27.12.2021
Date of first issue: 27.12.2021

2,2'-Methylenediphenyl diisocyanate	2536-05-2	TWA	0,005 ppm	FOR-2011-12-06-1358
	Further information: Substances considered to evoke allergies when coming into touch with the eyes or airways or evoking allergies after coming into contact with the skin			
		STEL	0,01 ppm	FOR-2011-12-06-1358
	Further information: Substances considered to evoke allergies when coming into touch with the eyes or airways or evoking allergies after coming into contact with the skin			
1,3-Diazetidine-2,4-dione, 1,3-bis[4-[(4-isocyanato-phenyl)methyl]phenyl]-	17589-24-1	TWA	0,005 ppm	FOR-2011-12-06-1358
	Further information: Substances considered to evoke allergies when coming into touch with the eyes or airways or evoking allergies after coming into contact with the skin			
		STEL	0,01 ppm	FOR-2011-12-06-1358
	Further information: Substances considered to evoke allergies when coming into touch with the eyes or airways or evoking allergies after coming into contact with the skin			

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Hand protection

Remarks : Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc. Manufacturer's directions for use should be observed because of great diversity of types.

Skin and body protection : Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

Respiratory protection : Wear respiratory protection if ventilation is inadequate. Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

Protective measures : Do not inhale gases/vapours/aerosols.
Avoid contact with the skin, eyes and clothing.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MasterSeal M 689 PTB

Version	Revision Date:	SDS Number:	Date of last issue: 27.12.2021
1.1	20.01.2022	000000827656	Date of first issue: 27.12.2021

Avoid exposure - obtain special instructions before use.
Handle in accordance with good building materials hygiene and safety practice.
Wearing of closed work clothing is recommended.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Color	:	colourless to yellowish
Odor	:	earthy, musty
solidification temperature	:	< 10 °C
Boiling range	:	200 °C (1.013 hPa)
Upper explosion limit / Upper flammability limit	:	For liquids not relevant for classification and labelling.
Lower explosion limit / Lower flammability limit	:	For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.
Flash point	:	> 200 °C
Autoignition temperature	:	> 530 °C
Decomposition temperature	:	> 230 °C
pH	:	substance/mixture reacts with water
Viscosity		
Viscosity, dynamic	:	730 - 930 mPa.s (25 °C)
		300 mPa.s (42 °C)
		115 mPa.s (62 °C)
Solubility(ies)		
Water solubility	:	Hydrolyzes to form water-insoluble compounds.
Partition coefficient: n-octanol/water	:	No data available
Vapor pressure	:	< 0,01 Pa (25 °C)
Relative density	:	approx. 1,22 (20 °C)
Density	:	1,11 g/cm ³ (20 °C)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MasterSeal M 689 PTB

Version	Revision Date:	SDS Number:	Date of last issue: 27.12.2021
1.1	20.01.2022	000000827656	Date of first issue: 27.12.2021

9.2 Other information

Explosives	:	Not explosive
Oxidizing properties	:	not determined
Flammability (liquids)	:	Not classified as a flammability hazard
Self-ignition	:	not self-igniting
Metal corrosion rate	:	No corrosive effect on metal.
Evaporation rate	:	Value can be approximated from Henry's Law Constant or vapor pressure.
Miscibility with water	:	hydrolyzes

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	Reacts with water, with formation of carbon dioxide. Risk of bursting. Reacts with substances which contain active hydrogen. No decomposition if stored and applied as directed.
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10.4 Conditions to avoid

Conditions to avoid	:	Temperature < 15 degrees Celsius Avoid moisture. See SDS section 7 - Handling and storage.
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10.5 Incompatible materials

Materials to avoid	:	Acids Alcohols Amines Water Alkalines
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10.6 Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MasterSeal M 689 PTB

Version	Revision Date:	SDS Number:	Date of last issue: 27.12.2021
1.1	20.01.2022	000000827656	Date of first issue: 27.12.2021

SECTION 11: Toxicological information

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

Acute toxicity

Harmful if inhaled.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

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

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Further information

Product:

Remarks : Health injuries are not known or expected under normal use. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MasterSeal M 689 PTB

Version	Revision Date:	SDS Number:	Date of last issue: 27.12.2021
1.1	20.01.2022	000000827656	Date of first issue: 27.12.2021

SECTION 12: Ecological information

12.1 Toxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Observe national and local legal requirements. Residues should be disposed of in the same manner as the substance/product.

Contaminated packaging : Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MasterSeal M 689 PTB

Version	Revision Date:	SDS Number:	Date of last issue: 27.12.2021
1.1	20.01.2022	000000827656	Date of first issue: 27.12.2021

SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:
Number on list 3

diphenylmethane-2,4'-diisocyanate
(Number on list 74, 56)
Diphenylmethane-4,4'-diisocyanate
(MDI) (Number on list 74, 56)
2,2'-Methylenediphenyl diisocyanate
(Number on list 74, 56)

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59). : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MasterSeal M 689 PTB

Version	Revision Date:	SDS Number:	Date of last issue: 27.12.2021
1.1	20.01.2022	000000827656	Date of first issue: 27.12.2021

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

Product Registration Number
NO-638954

Other regulations:

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

15.2 Chemical Safety Assessment

Chemical Safety Assessment not required

SECTION 16: Other information

Full text of H-Statements

H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H334	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	: May cause respiratory irritation.
H351	: Suspected of causing cancer.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Carc.	: Carcinogenicity
Eye Irrit.	: Eye irritation
Resp. Sens.	: Respiratory sensitization
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitization
STOT SE	: Specific target organ toxicity - single exposure
FOR-2011-12-06-1358	: Norway. Occupational Exposure limits
FOR-2011-12-06-1358 /	: Long term exposure limit
TWA	
FOR-2011-12-06-1358 /	: Short term exposure limit
STEL	

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MasterSeal M 689 PTB

Version	Revision Date:	SDS Number:	Date of last issue: 27.12.2021
1.1	20.01.2022	000000827656	Date of first issue: 27.12.2021

Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NO / EN