

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

EVO-STIK PLASTERBOARD ADHESIVE GUN FOAM

Supercedes Date: 31-Jan-2018

Revision Date 16-Mar-2018 Revision Number 2.01

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Name EVO-STIK PLASTERBOARD ADHESIVE GUN FOAM

Pure substance/mixture Mixture

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

Recommended use Building and construction work. Sealant.

Uses advised against Consumer use

1.3. Details of the supplier of the safety data sheet

Company Name

Bostik Industries Limited Newtown, Swords Co. Dublin Ireland Tel: +353 (1) 8624900

Fax: +353 (1) 8402186

E-mail address SDS.box-EU@bostik.com

1.4. Emergency telephone number

United Kingdom	+44 (1785) 272650
Ireland	+353 (1) 8624900 (Monday- Friday 9am-5pm)

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin Corrosion/Irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Respiratory sensitisation	Category 1 - (H334)
Skin sensitisation	Category 1 - (H317)
Carcinogenicity	Category 2 - (H351)
Effects on or via lactation	Yes - (H362)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Chronic aquatic toxicity	Category 4 - (H413)
Aerosols	Category 1 - (H222)

2.2. Label Elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Contains Isocyanic acid, polymethylenepolyphenylene ester, Alkanes, C14-17, chloro

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Signal Word DANGER

Hazard 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

H362 - May cause harm to breast-fed children

H373 - May cause damage to organs through prolonged or repeated exposure

H413 - May cause long lasting harmful effects to aquatic life

H222 - Extremely flammable aerosol

H229 - Pressurised container: May burst if heated

Precautionary Statements - EU (§28, 1272/2008)

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P103 - Read label before use

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P211 - Do not spray on an open flame or other ignition source

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P263 - Avoid contact during pregnancy/while nursing

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information

Placed on the market in aerosol containers or in containers fitted with a sealed spray attachment See section 7 for more information

2.3. Other Hazards

General Hazards

In case of insufficient ventilation and/or through use, the formation of a explosive/highly flammable mixture is possible. May cause sensitisation by skin contact.

PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Mixture

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3.2 Mixtures

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Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH Registration Number
Isocyanic acid, polymethylenepolyphenylen e ester	618-498-9	9016-87-9	>25 - <40	STOT SE 3 (H335) STOT RE 2 (H373) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Carc. 2 (H351) Acute Tox. 4 (H332)	Skin Irrit. 2 :: C>=5% Eye Irrit. 2 :: C>=5% Resp. Sens. 1 ::	Exempt(P)
Alkanes, C14-17, chloro	287-477-0	85535-85-9	10 - <20	Lact. (H362) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH066)		01-2119519269-33 -XXXX
Dimethyl ether	204-065-8	115-10-6	10 - <20	Flam. Gas 1 (H220) Press. Gas		01-2119472128-37 -XXXX
Isobutane	200-857-2	75-28-5	5 - <10	Flam. Gas 1 (H220) Press. Gas		01-2119485395-27 -XXXX
Propane	200-827-9	74-98-6	1- <2.5	Flam. Gas 1 (H220) Press. Gas		01-2119486944-21 -XXXX

Full text of H- and EUH-phrases: see section 16

Note: ^ indicates not classifed, however, the substance is listed in section 3 as it has an OEL.

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice In case of accident or being unwell, seek medical advice immediately (show directions

for use or safety data sheet if possible).

Inhalation Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or

stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to

give mouth-to-mouth resuscitation. Call a doctor.

Skin ContactWash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If skin irritation persists, call a doctor. Wash contaminated clothing

before reuse.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses

and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If

symptoms persist, call a doctor.

Ingestion Do NOT induce vomiting. Rinse mouth. Drink plenty of water. Never give anything by

mouth to an unconscious person. Call a doctor.

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Self-Protection of the First Aider Remove all sources of ignition. Use personal protective equipment as required.

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

Symptoms None known.

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

Note to doctors May cause sensitisation of susceptible persons. Treat symptomatically. Effects of

exposure (inhalation, ingestion or skin contact) to substance may be delayed.

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Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

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Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

No information available

5.2. Special hazards arising from the substance or mixture

In the event of fire and/or explosion do not breathe fumes. May cause sensitisation by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapours.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO2). Formaldehyde.

5.3. Advice for firefighters

Caution! Container under pressure. Heating causes rise in pressure with risk of bursting. Cool container with water spray.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions

Ensure adequate ventilation, especially in confined areas. Remove all possible sources of ignition in the surrounding area.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labelled containers. Dam up. Soak up with inert

absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4. Reference to other sections

Reference to other sections Section 7: HANDLING AND STORAGE

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Section 13: DISPOSAL CONSIDERATIONS

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

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Advice on safe handling

Ensure adequate ventilation, especially in confined areas. Use only in well-ventilated areas. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Pressurized container: Do not pierce or burn, even after use.

General Hygiene Considerations

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When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Recommended storage temperature. 10 - 35 °C. Observe local regulations / instructions for storage of pressurized containers. Keep from freezing.

7.3. Specific end use(s)

Other Information

Recommendation(s). Observe technical data sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Chemical Name	European Union	Ireland	United Kingdom
Isocyanic acid,	-	-	TWA: 0.02 mg/m ³
polymethylenepolyphenylene ester			STEL: 0.07 mg/m ³ SEN; as -NCO
9016-87-9			
Dimethyl ether	TWA: 1000 ppm	TWA: 1000 ppm	STEL: 500 ppm
115-10-6	TWA: 1920 mg/m ³	TWA: 1920 mg/m ³	STEL: 958 mg/m ³
		STEL: 3000 ppm	TWA: 400 ppm
		STEL: 5760 mg/m ³	TWA: 766 mg/m ³
Isobutane	-	TWA: 1000 ppm (8hr)	-
75-28-5		STEL: 1000 ppm	
Propane	-	TWA: 1000 ppm	-
74-98-6		STEL: 3000 ppm	
		As	

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration No information available.

(PNEC)

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection Tight sealing safety goggles. Face protection shield.

Hand Protection Wear protective gloves. Ensure that the breakthrough time of the glove material is not

exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature. Gloves should be replaced regularly and if there is any sign

of damage to the glove material.

Skin and Body Protection Antistatic footwear. Wear fire/flame resistant/retardant clothing. Gloves made of plastic

or rubber. Suitable protective clothing.

Respiratory Protection In case of mist, spray or aerosol exposure wear suitable personal respiratory protection

and protective suit.

Environmental Exposure Controls Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

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kPa

Physical State Aerosol
Appearance Foam
Colour Beige
Odour Characteristic

Odour Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH No information available
Melting point / freezing point
Boiling point / boiling range
Flash Point
Evaporation Rate
Flammability (solid, gas)
No information available
No information available
No information available
No information available

Flammability Limit in Air

Upper flammability limit: 18.6% Lower flammability limit 3.0% Vapour Pressure 550

Vapour Density

Relative Density

No information available
No information available

Water Solubility Immiscible in water Solubility in Other Solvents No information available **Partition Coefficient** No information available No information available **Autoignition Temperature Decomposition Temperature** No information available No information available **Explosive Properties Explosive Limits** No information available No information available Upper

Lower No information available

Oxidising Properties No information available

Kinematic Viscosity No information available

Dynamic Viscosity No information available

9.2. Other information

Softening PointNo information availableMolecular WeightNo information availableSolvent content (%)No information availableSolid content (%)No information available

Density

0.979 g/cm³

Bulk Density

No data available

VOC content (%)

189.32 g/L

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

None under normal use conditions.

10.2. Chemical stability

Stable under normal conditions.

Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

10.3. Possibility of hazardous reactions

Possibility of Hazardous Reactions

None under normal processing.

10.4. Conditions to avoid

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Heating causes rise in pressure with risk of bursting.

10.5. Incompatible materials

Strong oxidising agents. Acid anhydrides. Strong acids.

10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapours.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Harmful by inhalation.

InhalationHarmful by inhalation.Eye contactSeverely irritating to eyes.Skin ContactIrritating to skin.

Ingestion No data available.

Sensitisation May cause sensitisation by inhalation. May cause sensitisation by skin contact.

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

Skin Corrosion/Irritation Irritating to skin.

Serious eye damage/eye irritation Irritating to eyes.

Sensitisation May cause sensitisation by inhalation and skin contact. People who suffer from skin

sensitisation problems, asthma, allergies, chronic or recurring respiratory illnesses

should not be deployed in any process using this preparation.

Germ Cell Mutagenicity Not applicable.

Carcinogenicity Contains a known or suspected carcinogen.

Reproductive Toxicity May cause harm to breastfed babies.

STOT - Single Exposure May cause disorder and damage to the. Respiratory system.

STOT - Repeated ExposureCauses damage to organs through prolonged or repeated exposure.

Target Organ Effects Heart, Central nervous system.

Aspiration hazard No information available.

Numerical measures of toxicity

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document

 ATEmix (oral)
 17,063.00 mg/kg

 ATEmix (dermal)
 11,941.00 mg/kg

 ATEmix (inhalation-dust/mist)
 2.38 mg/l

Component Information

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Toxicity Data Data obtained on the component(s) include

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isocyanic acid,	LD 50 > 10000 mg/kg (Rat)	LD 50 > 9400 mg/kg (Rabbit)	=1.5 mg/m ³ (Rat) 4 h
polymethylenepolyphenylene ester			
9016-87-9			
Alkanes, C14-17, chloro	> 4000 mg/kg (rat)	> 2000 mg/kg (rat)	-
85535-85-9			

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Cured foam has no C14-C17 chloroalkanes leaching in water for a maximum 20% C14-C17 chloroalkanes in mixture. Study: "Pulverized PU Foam HM23. Leaching study, Limit test" by Dr. Christine Jahns and sponsored by FEICA AISBL, 09.12.2014

Component Information

Data obtained on the component(s) include

Chemical Name	Algae/aquatic plants	Fish	Crustacea	M-Factor
Isocyanic acid,	ErC50 (72h) >1640 mg/L	CL50 (96h) >1000 mg/L Fish	EC50 (24H) >1000 mg/L	
polymethylenepolyphenylen	, ,	(Danio rerio)	Daphnia magna	
e ester	subspicatus) (OECD 201)			
9016-87-9				
Alkanes, C14-17, chloro	-	LC50 48 h > 500 mg/L	EC50 (48h) = 0.0059 mg/l	
85535-85-9		(Leuciscus idus static)	(Daphnia magna) OECD 202	

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

Partition coefficient No information available

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No information available

Endocrine Disruptor Information

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Chemical Name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances
Alkanes, C14-17, chloro 85535-85-9	Group III Chemical	

Section 13: DISPOSAL CONSIDERATIONS

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13.1. Waste treatment methods

Supercedes Date: 31-Jan-2018

Waste from Residues/Unused

Products

Disposal should be in accordance with applicable regional, national and local laws and

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regulations.

Contaminated Packaging Improper disposal or reuse of this container may be dangerous and illegal.

European Waste Catalogue 08 05 01* waste isocyanates

16 05 04* gases in pressure containers (including halons) containing dangerous

substances

17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03

Other Information Waste codes should be assigned by the user based on the application for which the

product was used.

Section 14: TRANSPORTATION INFORMATION

ADR

14.1 UN/ID no UN1950

14.2 Proper Shipping Name Aerosols, Environmentally Hazardous

14.3 Transport hazard class(es) 2 Labels 2.1

14.4 Packing Group Not regulated

Description UN1950, Aerosols, 2, (D), Environmentally Hazardous

14.5 Environmental Hazard Ye

14.6 Special Provisions 190, 327, 344, 625

Classification Code 5F Tunnel restriction code (D) Limited Quantity (LQ) 1 L

<u>IMDG</u>

14.1 UN Number UN1950

14.2 Proper Shipping Name Aerosols (Alkanes, C14-17, chloro), Marine Pollutant

2.1

14.3 Transport hazard class(es)

14.4 Packing Group Not regulated

Description UN1950, Aerosols (Alkanes, C14-17, chloro), 2.1, Marine Pollutant

14.5 Marine Pollutant PP

This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO

14.6 Special Provisions 63,190, 277, 327, 344, 381, 959

Limited Quantity (LQ) See SP277 EmS-No F-D, S-U

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

RID

14.1 UN Number UN1950

14.2 Proper Shipping Name Aerosols, Environmentally Hazardous

14.3 Transport hazard class(es) 2 Labels 2.1

14.4 Packing Group Not regulated

Description UN1950, Aerosols, 2, Environmentally Hazardous

14.5 Environmental Hazard Yes
Classification Code 5F

14.6 Special Provisions 190, 327, 344, 625

Limited Quantity (LQ) 1 L

ICAO (air)

 14.1 UN/ID no
 UN1950

 14.2 Proper Shipping Name
 Aerosols

 14.3 Hazard Class
 2.1

14.4 Packing Group Not regulated

Description UN1950, Aerosols, 2.1

14.5 Environmental Hazard Yes

14.6 Special Provisions A145, A167

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IATA

14.1 UN/ID no UN1950

14.2 Proper Shipping Name Aerosols, flammable

14.3 Transport hazard class(es) 2.1

Supercedes Date: 31-Jan-2018

14.4 Packing Group Not regulated

Description UN1950, Aerosols, flammable, 2.1

14.5 Environmental Hazard Yes

14.6 Special Provisions A145, A167, A802

Limited Quantity (LQ) 30 kg G **ERG Code** 10L

Section 15: REGULATORY INFORMATION

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

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACh) Regulation (EC 1907/2006)

EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

EU-REACH (1907/2006) - Annex XIV - List of substances subject to Authorization

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Dangerous substance category per Seveso Directive (2012/18/EU)

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

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E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Persistent Organic Pollutants

Not applicable

15.2. Chemical safety assessment

None

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Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H362 - May cause harm to breast-fed children

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H335 - May cause respiratory irritation

H373 - May cause damage to organs through prolonged or repeated exposure

H315 - Causes skin irritation

H319 - Causes serious eye irritation

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

H317 - May cause an allergic skin reaction

H351 - Suspected of causing cancer

H332 - Harmful if inhaled

EUH066 - Repeated exposure may cause skin dryness or cracking

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls and personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

PBT Persistent, Bioaccumulative, and Toxic (PBT) Chemicals STOT (RE): Specific target organ toxicity - Repeated exposure STOT (SE): Specific target organ toxicity - Single exposure

EWC: European Waste Catalogue

Key literature references and sources for data

Classification and labeling data calculated from data received from raw material suppliers

Prepared By Product Safety & Regulatory Affairs

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Indication of changes

Revision Note Not applicable.

Training Advice No information available

Further information No information available

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006

Disclaimer

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.

End of Safety Data Sheet

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