

# **SAFETY DATA SHEET**

Published DateRevision DateRevision NumberMay-22-2019May-22-20192.5

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product code 182034PC

Product name Etch Resist Black

Product category Ink Product

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use
Recommended use Printing operations

Details of the supplier of the safety data sheet

UNITED STATES
UNITED KINGDOM
Nazdar Company
Nazdar Limited
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Shawnee, KS 66227
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Emergency telephone number

USA: Chemtrec: +001-800-424-9300 Outside USA: Chemtrec: +001-703-527-3887

24 Hour Emergency Phone Number

# 2. HAZARDS IDENTIFICATION

#### Classification

Carcinogenicity	Category 2 - (H351)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Aspiration toxicity	Category 1 - (H304)
Chronic aquatic toxicity	Category 3 - (H412)
Flammable liquids	Category 3 - (H226)

# Label elements





#### Signal Word Danger

#### **Hazard Statements**

H304 - May be fatal if swallowed and enters airways

H351 - Suspected of causing cancer

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

H412 - Harmful to aquatic life with long lasting effects

#### H226 - Flammable liquid and vapor

### **Precautionary Statements**

P202 - Do not handle until all safety precautions have been read and understood

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

P308 + P313 - IF exposed or concerned: Get medical advice/attention

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

P314 - Get medical advice/attention if you feel unwell

P273 - Avoid release to the environment

P331 - Do NOT induce vomiting

P233 - Keep container tightly closed

P403 + P235 - Store in a well-ventilated place. Keep cool

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

#### Hazards not otherwise classified (HNOC)

Harmful to aquatic life.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Mixture**

Component	CAS-No	Weight %	Trade	Note
			Secret	
Solvent naphtha, petroleum, heavy aromatic	64742-94-5	10 - 30	*	
Barium sulfate	7727-43-7	10 - 30	*	
Asphalt	8052-42-4	10 - 30	*	
Stoddard solvent	8052-41-3	5 - 10	*	
Naphthalene (constituent)	91-20-3	1 - 5	*	1
Styrene-1,3-butadiene polymer, hydrogenated	66070-58-4	1 - 5	*	
Carbon black	1333-86-4	< 1	*	
Additive	Trade Secret	< 1	*	
1,2,4-Trimethylbenzene (constituent)	95-63-6	< 0.5	*	1

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

Note 1. Type of chemical: Constituent

# 4. FIRST AID MEASURES

# **Description of first aid measures**

**General Advice** Show this safety data sheet to the doctor in attendance.

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

continue flushing for at least 15 minutes. Get medical attention if irritation develops and

persists.

**Skin Contact** Wash off immediately with soap and plenty of water for at least 15 minutes. Remove

contaminated clothing. If irritation (redness, rash, blistering) develops, get medical attention.

**Inhalation** Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or

stopped, administer artificial respiration. Get medical attention immediately.

Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a

physician or poison control center immediately.

#### Most important symptoms and effects, both acute and delayed

None under normal use conditions.

# Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

Revision Date May-22-2019

#### **Suitable Extinguishing Media**

Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## **Unsuitable Extinguishing Media**

No information available.

#### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. May emit toxic fumes under fire conditions.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers / tanks with water spray. Sealed containers may rupture when heated.

# 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal Precautions Remove all sources of ignition. Ventilate the area. Avoid contact with eyes, skin and

clothing. Avoid breathing dust or vapor. Evacuate personnel to safe areas. Keep people

away from and upwind of spill/leak.

#### Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways. Local authorities should be advised if significant spillages cannot be contained.

# Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use clean non-sparking tools to collect absorbed material.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

**Handling**Use personal protective equipment as required. Do not eat, drink or smoke when using this

product. Ensure adequate ventilation.

#### Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

open flames, hot surfaces and sources of ignition. Keep container closed when not in use.

Keep out of the reach of children.

**Incompatible Products** Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### **Exposure limits**

Component	ACGIH TLV
Barium sulfate	TWA: 5 mg/m³ inhalable particulate matter, particulate matter
7727-43-7	containing no asbestos and <1% crystalline silica
Asphalt	TWA: 0.5 mg/m³ fume, inhalable particulate matter
8052-42-4	
Stoddard solvent	TWA: 100 ppm
8052-41-3	
Naphthalene (constituent)	TWA: 10 ppm
91-20-3	Skin
Carbon black	TWA: 3 mg/m³ inhalable particulate matter
1333-86-4	

Component	OSHA PEL
Barium sulfate	TWA: 15 mg/m³ total dust
7727-43-7	TWA: 5 mg/m³ respirable fraction
Stoddard solvent	TWA: 500 ppm
8052-41-3	TWA: 2900 mg/m <sup>3</sup>
Naphthalene (constituent)	TWA: 10 ppm
91-20-3	TWA: 50 mg/m <sup>3</sup>
Carbon black	TWA: 3.5 mg/m <sup>3</sup>
1333-86-4	

Component	OSHA PEL (vacated)
Barium sulfate	TWA: 10 mg/m³ total dust
7727-43-7	TWA: 5 mg/m <sup>3</sup> respirable fraction
Stoddard solvent	TWA: 100 ppm
8052-41-3	TWA: 525 mg/m <sup>3</sup>
Naphthalene (constituent)	TWA: 10 ppm
91-20-3	TWA: 50 mg/m <sup>3</sup>
	STEL: 15 ppm
	STEL: 75 mg/m <sup>3</sup>
Carbon black	TWA: 3.5 mg/m <sup>3</sup>
1333-86-4	

Component	Ontario TWAEV
Barium sulfate	TWA: 5 mg/m³ inhalable
7727-43-7	
Asphalt	TWA: 0.5 mg/m³ fume, inhalable
8052-42-4	
Stoddard solvent	TWA: 525 mg/m <sup>3</sup>
8052-41-3	
Naphthalene (constituent)	TWA: 10 ppm
91-20-3	Skin
Carbon black	TWA: 3 mg/m³ inhalable
1333-86-4	

Component	Mexico OEL (TWA)
Asphalt	TWA/VLE-PPT: 5 mg/m <sup>3</sup>
8052-42-4	STEL/PPT-CT: 10 mg/m <sup>3</sup>
Stoddard solvent	TWA/VLE-PPT: 100 ppm
8052-41-3	TWA/VLE-PPT: 523 mg/m <sup>3</sup>
	STEL/PPT-CT: 200 ppm
	STEL/PPT-CT: 1050 mg/m <sup>3</sup>
Naphthalene (constituent)	TWA/VLE-PPT: 10 ppm
91-20-3	TWA/VLE-PPT: 50 mg/m <sup>3</sup>
	STEL/PPT-CT: 15 ppm
	STEL/PPT-CT: 75 mg/m <sup>3</sup>
Carbon black	TWA/VLE-PPT: 3.5 mg/m <sup>3</sup>
1333-86-4	STEL/PPT-CT: 7 mg/m <sup>3</sup>

### **Appropriate engineering controls**

# **Engineering Measures**

Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Users are advised to consider national Occupational Exposure Limits or other equivalent values. In case of insufficient ventilation, wear suitable respiratory equipment.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Wear safety glasses with side shields (or goggles). If splashes are likely to occur:. Wear

suitable face shield. Ensure that eyewash stations and safety showers are close to the

workstation location.

**Skin Protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

**Hand Protection** Chemical resistant protective gloves.

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding >480 minutes of permeation time): eq. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers. Taking into account the varying conditions, the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Due to different glove types, the manufacturer's directions for use should be observed. Replace gloves immediately when torn or any change in appearance is noticed such as dimension, color, flexibility.

**Respiratory Protection** 

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking or smoking. Wash contaminated clothing before reuse. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of equipment, work area and clothing is recommended.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

**Physical State** Liquid **Appearance** Colored Liquid Characteristic **Odor Threshold** No information available Odor

Remarks • Method Property Values No data available рΗ **Melting Point / Freezing Point** No data available **Boiling Point / Boiling Range** > 149 °C / 300 °F Flash Point 38 °C / 100 °F Tag closed cup

**Evaporation rate** No data available Flammability Limit in Air

Upper flammability limit No data available Lower flammability limit No data available **Vapor Pressure** No data available Vapor Density No data available

Specific Gravity 1.15

Water Solubility No data available Solubility in other solvents No data available Partition coefficient: n-octanol/water No data available **Autoignition Temperature** No data available **Decomposition temperature** No data available Kinematic viscosity No data available **Dynamic viscosity** No data available

**Explosive Properties** No data available **Oxidizing Properties** No data available

Other Information

**Photochemically Reactive** Yes Weight Per Gallon (lbs/gal) 9.62

VOC by weight %	VOC by volume %	VOC lbs/gal	VOC grams/liter
(less water)	(less water)	(less water)	(less water)
36.4	46.48	3.5	419.9

# 10. STABILITY AND REACTIVITY

### 182034PC Etch Resist Black

### Reactivity

No information available.

# **Chemical stability**

Stable under normal conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

# Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

# Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapors. Carbon dioxide (CO2). Carbon monoxide.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

InhalationSpecific test data for the substance or mixture is not available.Eye ContactSpecific test data for the substance or mixture is not available.Skin ContactSpecific test data for the substance or mixture is not available.IngestionSpecific test data for the substance or mixture is not available.

Component	Oral LD50	
Solvent naphtha, petroleum, heavy aromatic	> 5000 mg/kg (Rat)	
64742-94-5		
Barium sulfate	= 307000 mg/kg ( Rat )	
7727-43-7		
Asphalt	> 5000 mg/kg (Rat)	
8052-42-4		
Naphthalene (constituent)	= 1110 mg/kg (Rat)	
91-20-3		
Carbon black	> 15400 mg/kg ( Rat )	
1333-86-4		
Additive	> 2000 mg/kg ( Rat )	
1,2,4-Trimethylbenzene (constituent)	= 3280 mg/kg ( Rat )	
95-63-6		

Component	Dermal LD50
Solvent naphtha, petroleum, heavy aromatic	> 2 mL/kg (Rabbit)
64742-94-5	- ' '
Asphalt	> 2000 mg/kg (Rabbit)
8052-42-4	
Naphthalene (constituent)	= 1120 mg/kg ( Rabbit )
91-20-3	
Additive	> 5010 mg/kg(Rabbit)
1,2,4-Trimethylbenzene (constituent)	> 3160 mg/kg ( Rabbit )
95-63-6	

Component	Inhalation LC50	
Solvent naphtha, petroleum, heavy aromatic 64742-94-5	> 590 mg/m³ (Rat) 4 h	
Asphalt 8052-42-4	> 94.4 mg/m³(Rat)4.5 h	
Naphthalene (constituent) 91-20-3	> 340 mg/m³ (Rat) 1 h	
Additive	> 165 mg/L (Rat)1 h	
1,2,4-Trimethylbenzene (constituent)	= 18 g/m³ (Rat) 4 h	

95.63.6	

# Information on toxicological effects

**Symptoms** Specific test data for the substance or mixture is not available.

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

Skin corrosion/irritationSpecific test data for the substance or mixture is not available.Eye damage/irritationSpecific test data for the substance or mixture is not available.IrritationSpecific test data for the substance or mixture is not available.CorrosivitySpecific test data for the substance or mixture is not available.SensitizationSpecific test data for the substance or mixture is not available.Mutagenic EffectsSpecific test data for the substance or mixture is not available.

Carcinogenic effects Specific test data for the substance or mixture is not available. Suspected of causing

cancer. (based on components).

**Reproductive Effects**Specific test data for the substance or mixture is not available. **STOT - single exposure**Specific test data for the substance or mixture is not available.

STOT - repeated exposure Specific test data for the substance or mixture is not available. May cause damage to

organs through prolonged or repeated exposure. (based on components).

Chronic Toxicity Specific test data for the substance or mixture is not available

Aspiration hazard Specific test data for the substance or mixture is not available. May be fatal if swallowed

and enters airways. (based on components).

 Carcinogenicity
 The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH
Naphthalene (constituent)	A3
91-20-3	
Carbon black	A3
1333-86-4	

Component	IARC
Asphalt	Group 2B
8052-42-4	
Naphthalene (constituent)	Group 2B
91-20-3	
Carbon black	Group 2B
1333-86-4	

Component	NTP
Naphthalene (constituent)	Reasonably Anticipated
91-20-3	

Component	OSHA
Asphalt	X
8052-42-4	
Naphthalene (constituent)	X
91-20-3	
Carbon black	X
1333-86-4	

# Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity

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

**ATEmix (oral)** 21,537.00 mg/kg

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Specific test data for the substance or mixture is not available. Harmful to aquatic life with long lasting effects. (based on components).

# 0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Component	Algae/aquatic plants
Additive	72h EC50 Pseudokirchneriella subcapitata: > 0.2 mg/L

Component	Fish
Solvent naphtha, petroleum, heavy aromatic	96h LC50 Pimephales promelas: = 19 mg/L (static)
64742-94-5	96h LC50 Oncorhynchus mykiss: = 2.34 mg/L
	96h LC50 Lepomis macrochirus: = 1740 mg/L (static)
	96h LC50 Pimephales promelas: = 45 mg/L (flow-through)
	96h LC50 Pimephales promelas: = 41 mg/L
Naphthalene (constituent)	96h LC50 Pimephales promelas: 5.74 - 6.44 mg/L (flow-through)
91-20-3	96h LC50 Pimephales promelas: = 1.99 mg/L (static)
	96h LC50 Lepomis macrochirus: = 31.0265 mg/L (static)
	96h LC50 Oncorhynchus mykiss: = 1.6 mg/L (flow-through)
	96h LC50 Oncorhynchus mykiss: 0.91 - 2.82 mg/L (static)
Additive	96h LC50 Oncorhynchus mykiss: > 0.2 mg/L (semi-static)
1,2,4-Trimethylbenzene (constituent)	96h LC50 Pimephales promelas: 7.19 - 8.28 mg/L (flow-through)
95-63-6	

Component	Crustacea
Solvent naphtha, petroleum, heavy aromatic 64742-94-5	48h EC50 Daphnia magna: = 0.95 mg/L
91-20-3	48h EC50 Daphnia magna: 1.09 - 3.4 mg/L Static 48h EC50 Daphnia magna: = 1.96 mg/L Flow through 48h LC50 Daphnia magna: = 2.16 mg/L
Additive	48h EC50 Daphnia magna: > 0.2 mg/L
1,2,4-Trimethylbenzene (constituent) 95-63-6	48h EC50 Daphnia magna: = 6.14 mg/L

# Persistence and Degradability

No information available.

# **Bioaccumulation**

No information available

Component	Partition coefficient
Solvent naphtha, petroleum, heavy aromatic	2.9 - 6.1
64742-94-5	
Asphalt	>6
8052-42-4	
Naphthalene (constituent)	3.6
91-20-3	
1,2,4-Trimethylbenzene (constituent)	3.63
95-63-6	

# Other adverse effects

No information available

# 13. DISPOSAL CONSIDERATIONS

# Waste treatment methods

Waste Disposal Methods Contain and dispose of waste according to local regulations.

Contaminated Packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. TRANSPORT INFORMATION

Note: This information is not intended to convey all specific transportation requirements relating to

this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation information can be found in the specific regulations for your mode of transportation. It is the responsibility of the transporting organization to follow all applicable laws, regulations and

rules relating to the transportation of the material.

**DOT** In the U.S. and Canada, this material may be reclassified as a combustible liquid and is not

regulated, via surface transportation, in containers less than 119 gallons or 450 liters [per 49 CFR 173.150 (f)] [per Transportation of Dangerous Goods Regulations/Clear Language

Part 1.33].

UN/ID no. UN1210
Proper Shipping Name Printing Ink

Hazard Class 3
Packing Group III

ICAO / IATA / IMDG / IMO

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# 15. REGULATORY INFORMATION

#### **International Inventories**

All components are listed on the TSCA Inventory. For further information, please contact.. Supplier (manufacturer/importer/downstream user/distributor).

# **U.S. Federal Regulations**

# **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Naphthalene (constituent)	91-20-3	1 - 5	0.1

# Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:.

Component	CAS-No	Weight %
Naphthalene (constituent)	91-20-3	1 - 5

### U.S. State Regulations

	Massachusetts Right To Know
Barium sulfate 7727-43-7	X
Asphalt 8052-42-4	X
Stoddard solvent 8052-41-3	X
Naphthalene (constituent) 91-20-3	X
Carbon black 1333-86-4	X
1,2,4-Trimethylbenzene (constituent) 95-63-6	X

Component	Minnesota

\_\_\_\_\_

	Right To Know
Barium sulfate	X
7727-43-7	
Asphalt	X
8052-42-4	
Stoddard solvent	X
8052-41-3	
Naphthalene (constituent)	X
91-20-3	
Carbon black	X
1333-86-4	
1,2,4-Trimethylbenzene (constituent)	X
95-63-6	

	New Jersey Right To Know
Barium sulfate 7727-43-7	X
Asphalt 8052-42-4	X
Stoddard solvent 8052-41-3	X
Naphthalene (constituent) 91-20-3	X
Carbon black 1333-86-4	X
1,2,4-Trimethylbenzene (constituent) 95-63-6	X

Component	Pennsylvania	
	Right To Know	
Barium sulfate	X	
7727-43-7		
Asphalt	X	
8052-42-4		
Stoddard solvent	Х	
8052-41-3		
Naphthalene (constituent)	Х	
91-20-3		
Carbon black	Х	
1333-86-4		
1,2,4-Trimethylbenzene (constituent)	Х	
95-63-6		

# California Prop. 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm

Component	California Prop. 65
Naphthalene (constituent)	Carcinogen
Carbon black	Carcinogen

<sup>-</sup> This product contains carbon black in a non-respirable form. Inhalation of carbon black is unlikely to occur from exposure to this product

# **Canada**

Component	NPRI - National Pollutant Release Inventory
Solvent naphtha, petroleum, heavy aromatic 64742-94-5	Part 5, Other Groups and Mixtures; Part 4 Substance
***************************************	Part 5, Other Groups and Mixtures
8052-41-3	i dit o, other croups and winteres
1 ' ' '	Part 1, Group A Substance; Part 4 Substance
91-20-3	
1,2,4-Trimethylbenzene (constituent)	Part 5, Individual Substances; Part 4 Substance
95-63-6	

16 OTHER INFORMATION

HMIS:HealthFlammabilityReactivityPersonal Protection2 \*20X

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

### Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Ceiling Maximum limit value

### ACGIH: (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen A2 - Suspected Human Carcinogen A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

Reasonably Anticipated to be a Human Carcinogen OSHA: (Occupational Safety & Health Administration)

X - Present

Revision Date May-22-2019

### Pursuant to NOM-018-STPS-2015

This information within is considered correct but is not exhaustive and will be used for guidance only, which is based on the current knowledge of the substance or mixture and is applicable to the appropriate safety precautions for the product.

# **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**