# **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

074591921

# The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

071069566 071365402 071365436 071365469 071365493 071403054 071403062 071403070 71365402 71365469 71365493

# The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

071379510 071379528 071379536 071379544 071379551 074582375 074582383 074582391 074582409 074582417 074582425 074582433 074582466 074582631 074591889 074591897 074591905 074591939 074592606 074592614 074592630 074592648 074592655 074599973

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER:	LANG DENTAL MFG. CO., INC. 175 MESSNER DRIVE WHEELING, IL 60090 U.S.A.
TELEPHONE:	PRODUCT INFORMATION: (800) 222-5264 or (847) 215-6622
	EMERGENCY CONTACT: INFOTRAC 24 HOURS CHEMICAL RESPONSE SYSTEM (800) 535-5053 or (352) 323-3500

PRODUCT: JET LIQUID / ORTHO-JET LIQUID

PRODUCT NUMBERS: 1403, 1404, 1406, 1407, 148, 1409, 1412, 1412G, 1484, 1484EP, 1484LR, 1484U, 1493, 1493AS / 1303, 1304, 1306, 1307, 1308, 1309, 1323, 1334

# 2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NATURE: Methyl Methacrylate: CAS Number - 80-62-6 EINECS - 2012971

HAZARDOUS INGREDIENT (S):	%:	HAZARD SYMBOL:	R PHRASES:
Methyl Methacrylate	> 95	F, Xi	11,36/37/38,43
99-97-8 N,N-dimethyl-p-toluidine	< 2	Т	23/24/25;33;52/53

# 3. HAZARDS IDENTIFICATION

Highly flammable.

Imitating to eyes, respiratory system and skin. May cause sensitization by skin contact. High atmospheric concentrations may lead to irritation of the respiratory tract and anesthetic effects. Repeated and/or prolonged contact may cause dermatitis.

# 4. FIRST AID MEASURES

Remove patient from exposure, keep warm and at rest. Obtain immediate medical attention.
Remove contaminated clothing. Wash skin immediately with water. If symptoms (irritation or blistering) occur obtain medical attention.
Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.
If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk immediately. Never give anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Obtain immediate medical attention.
Remove contaminated clothing, wash thoroughly before reuse.
Treat symptoms conventionally, after thorough decontamination.

# 5. FIRE FIGHTING MEASURES

FLASH POINT (METHOD):	APPROX. FLAMMABLE LIMITS:	AUTOIGNITION TEMPERATURE:
11.5 °C (52.7 °F) (TCC)	LEL 2.12%, UEL 12.5%	421 °C (790 °F)
EXTINGUISHING MEDIA: Ch	emical foam, carbon dioxide, dry chemical.	

FIRE AND EXPLOSION HAZARDS: For bulk size > 1L – High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during a runaway polymerization. Use a water spray or fog to reduce or direct vapors. Water may not be effective in actually extinguishing a fire involving this product.

SPECIAL FIRE FIGHTING PROCEDURES: Highly flammable. When involved in a fire, this product may ignite readily and decompose to produce carbon oxides. Vapors of this product are heavier than air and may travel to a source of ignition and flash back to a leaking or open container. Do not enter fire area without proper protection. Fight fire from a safe location. Heat/impurities may cause pressure to build and/or rupture closed containers, spreading fire, increasing risk of burns/injuries.

FIRE FIGHTING PROTECTIVE EQUIPMENT: A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

SENSITIVE TO MECHANICAL IMPACT: No SENSITIVE TO STATIC DISCHARGE: Yes

#### 6. ACCIDENTAL RELEASE MEASURES

Eliminate sources of ignition. Ensure suitable personal protection (including respiratory protection) during removal of spillages. Prevent entry into drains. Adsorb spillages onto sand, earth or any suitable adsorbent material. Do not adsorb onto sawdust or other combustible materials. Use only non-sparking tools for recovery and cleanup. Maximize ventilation (open doors and windows) and secure all sources of ignition. Transfer to a container for disposal or recovery. Wash all affected areas with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

# 7. HANDLING AND STORAGE

PRECAUTIONS FOR HANDLING: Observe precautions found on the label. Close container after each use. Ground all metal containers when transferring. Use explosion-proof equipment.

- HANDLING: Avoid contact with skin and eyes. Avoid inhalation of high concentration of vapors. Use only in well ventilated areas. The vapor is heavier than air, beware of pits and confined spaces. Take precautionary measures against static discharges.
- STORAGE: Keep only in original container. Store in cool, dry place away from heat, sparks, flame and direct sunlight, other light sources, or sources of intense heat. Keep container closed to prevent water absorption and contamination. Keep away from sources of ignition – No Smoking.
- IMPORTANT: Methacrylate stored in bulk must be kept in contact with air (oxygen).

Monomer vapors are uninhibited and may form polymers in vent or flame arresters, resulting in blockage of vents.

STORAGE TEMPERATURE: Preferably not exceeding 25 °C.

INDUSTRIAL HYGIENE PRACTICES: Avoid contact with skin, eyes, clothing, and prolonged contact with the product. Wash face and hands thoroughly with the soap and water after use and before eating, drinking, smoking or applying cosmetics. Do not eat, drink or smoke while handling product.

#### 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

The following information is given as general guidance.

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RESPIRATORS: Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely. A suitable mask with filter type A may be appropriate. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR SS 1910.134 or other appropriate governing standard.

EYE PROTECTION: Depending on the use of this product, splash or safety glasses may be worn. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR SS 1910.133 or other appropriate governing standard. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.

GLOVES: If anticipated that prolonged & repeated skin contact will occur during use of this product, wear chemical resistant gloves for routine industrial use. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR SS 1910.138 or other appropriate governing standard.

OTHER: Wear suitable protective clothing.

OCCUPATIONAL EXPOSURE LIMITS: HAZARDOUS INGREDIENT (S): PEL (OSHA): Methyl Methacrylate 100 ppm

TLV (ACGIH): 100 ppm COMPANY RECOMMENDATION: 100 ppm

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

For Methyl Methacrylate: VAPOR DENSITY (AIR=1): VAPOR 3.5 at 15.5 °C (60 °F)	R PRESSURE (28 mmHg): 20 ℃ (68 ℉)	WATER SOLUBILITY: 1.6 wt% @ 20 °C (68 °F)
PERCENT VOLATILE (W/W%):	BOIL POINT:	SPECIFIC GRAVITY (H <sub>2</sub> O=1):
99+	101 ºC, 214 ºF	0.94
VISCOSITY:	EVAPORATION RATE (BuAc=1):	DENSITY:
Like water	3.1	0.949 g/ml @ 15.5°C
ODOR:	FORM:	COLOR:
Characteristic strong and acrid	Líquid	Clear

#### **10. STABILITY AND REACTIVITY**

CONDITIONS TO AVOID: Temperatures above 21°C, 70°F, localized heat sources (example drum or band heaters) oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, inert gas blanketing. INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong reducers, free radical initiators, inert gases, and oxygen scavengers. Material has strong solvent properties and can soften paint and rubber. HAZARDOUS DECOMPOTION PRODUCT(S): Oxides of carbon when burned.

HAZARDOUS POLYMERIZATION: May occur.

STABILITY: Unstable/Reactive upon depletion of inhibitor.

# **11. TOXICOLOGICAL INFORMATION**

- INHALATION: Irritating to respiratory system. High atmospheric concentrations may lead to irritation of the respiratory tract, dizziness, headache and anesthetic effects.
- SKIN: May cause sensitization by skin contact. Irritating to skin. Repeated and/of prolonged contact may cause dermatitis.
- EYE: Irritating to eyes. High vapor concentration will cause irritation.
- INGESTION: Low oral toxicity, but ingestion may cause irritation of the gastrointestinal tract.
- TARGET ORGANS: For Methyl Methacrylate Repeated exposure to high levels produces adverse effects on the nose, liver, and kidneys.

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There is no reason to believe that methyl methacrylate represents a carcinogenic or mutagenic hazard to man based upon evidence from well-conducted studies in relevant cohorts.

Recent studies in animals have shown that high exposures do not have reproductive effects. Similarly, none of these effects are likely to occur in humans provided exposure is maintained at or below the occupational exposure limit.

#### TOXICITY DATA:

For N,N-dimethyl-p-toluidine: Acute Oral Rat LD<sub>50</sub> 1650 mg/kg Acute Dermal Rat LD<sub>50</sub> >2000 mg/kg Inhalation Rat LC<sub>50</sub> 2540 ppm/4H

# 12. ECOLOGICAL INFORMATION

 AQUATIC TOXICITY:
 Flathead Minnows LC<sub>50</sub> 130 mg/L, 96H

 (For Methyl Methacrylate)
 Daphnia magna
 EC<sub>50</sub> 69 mg/L, 48H

 Algae
 LC<sub>50</sub> 170 mg/L, 96H

 ENVIRONMENTAL FATE:
 28 Day Biodegradation Study: Not readily biodegradable.

 (For Methyl Methacrylate)
 Chemical Oxygen Demand (COD) 88% (28 days).

 Inherent Biodegradation: Dissolved Organic Carbon Removal (DOC removal) > 95% (28 days)

 Adsorption/Desorption: High mobility in soil.

# 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: When discarded it is a hazardous waste by the EPA under RCRA. The reportable quantity (RQ) for methyl methacrylate is 1000 lbs (40 CFR Part 302). After addition of excess inhibitor, dispose waste material in accordance with Federal, State, and Local regulations.

DISPOSAL OF EMPTY CONTAINERS: Reuse of empty drums or containers in not recommended. Employees should be advised of the potential hazards, due to residual flammable material, associated with empty containers. Dispose of all empty containers properly, in accordance with Federal, State and Local regulations.

# 14. TRANSPORTATION

DOT / UN SHIPPING NAME:	Flammable liquid, n.o.s. (Methyl Methacrylate monomer, stabilized / N, N-dimethyl-p-toludine solution)
NA/UN NUMBER:	UN1993
DOT/UNCLASS:	3
PACKING GROUP:	ll.
LABEL:	Flammable liquid
IMDG CLASS:	3
CERCLA RQ:	1000 lb

#### **15. REGULATORY INFORMATION**

EC REGULATIONS:

EINECS: all chemical listed EEC Classification: HIGHLY FLAMMABLE AND IRRITANT Symbol: Indication of Danger



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Risk Phrases: R11 Highly flammable. R20/21/22 Harmful by inhalation, and in contact with skin. R33 Danger of cumulative effects. R36/37/38. Irritating to the eyes, respiratory system and skin. R43 May cause sensitization by skin contact.

Safety Phrases: S3 Keep in a cool place.

- S7 Keep container tightly closed.
- S9 Keep container in well ventilated place.
- S16 Keep away from sources of ignition. No smoking.
- S20 When using do not eat or drink.
- S24 Avoid contact with skin.
- S29 Do not empty into drains.
- S37/39 Wear suitable gloves and eye/face protection.

S46 If swallowed, seek medical advice immediately and show this container or label.

CANADIAN REGULATIONS:

DSL: included WHMIS Classification: B2 Flammable Liquid

D2B Irritant

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. None of the components of this product are listed on the Priorities Substances List.

TSCA Inventory Status: The components of this product are listed on the TSCA Inventory. Other Federal Requirements: This product complies with the appropriate sections of the U.S. FDA's 21 CFR. State Regulatory: This product may contain components that are covered under specific state criteria. SARA Reporting Requirements: Yes SARA Threshold Planning Quantity: There are specific Threshold Planning Quantities for the components of this product.

#### 16. OTHER INFORMATION

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING: HEALTH = 2 FLAMMABILITY = 3 REACTIVITY = 2 PERSONAL PROTECTIVE EQUIPMENT – Gloves and safety glasses or chemical splash goggles.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION RATING: HEALTH = 2 FLAMMABILITY = 3 REACTIVITY = 2

This data sheet was prepared in accordance with Directive 91/155/EEC.

The above information has been gathered from reliable sources and is believed to be correct. However, the information is provided without any warranty, either expressed or implied. Lang Dental Mfg. Co., Inc. shall not be held liable for any damage resulting from the handling of or contact with the above product.

UPDATE 01/06/06

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LANG®

Effective Date 26-May-2021

# SAFETY DATA SHEET

Version 5

	1. IDENTIFICATION	
<u>Product Identifier</u> Product Name	SELF CURING DENTURE POWDER / JET DENTURE REPAIR POWDER	
<u>Other means of identification</u> SDS# Product Code	004 0830, 0834, 0850, 0856, 0870, 0880 / 1212, 1220, 1223, 1230, 1234, 1250, 1256, 1270, 1280	
Recommended use of the chemical and restrictions on use           Recommended Use         Fabrication of dentures		
Details of the supplier of the safety data sheet         Supplier Address       Lang Dental Mfg. Co., Inc.         175 Messner Dr.         Wheeling, IL 60090         USA		
Emergency telephone numbe Company Phone Number Emergency Telephone (INFOT	+1 847-215-6622	
Authorized European Represe	entative MediMark <sup>®</sup> Europe SARL 11, rue Emile Zola. BP 2332 38033 Grenoble Cedex 2 France Tel: +33 476 86 43 22 Fax: +33 476 17 19 82 Email: info@medimark-europe.com	

# 2. HAZARDS IDENTIFICATION

# Classification of the substance or mixture

Skin sensitization		C	Category 1		
Signal word	Warning				
Hazard statements	H317 May cause ar	n allergic skin reactior	1.		
Physical State	Powder	Appearance	Fine, white to pigmented	Odor	Faint odor in bulk
Precautionary State	P264 Wash hands a P272 Contaminated	and exposed skin tho work clothing should	nist, vapors or spray. roughly after handling. I not be allowed out of the workplace. clothing/eye protection/face protection.		
Precautionary State	P363 Wash contam P302+P352 IF ON S P305+P351 IF IN E +P338 to do –	KIN: Wash with soap YES: Rinse continuou continue rinsing.		e contact lens	ses if present and easy

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists, get medical advice/attention.

#### **Precautionary Statements – Disposal**

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

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight - %	Trade Secret
Polymer	9011-14-7	< 90	*
Benzoyl peroxide	94-36-0	< 2	*

\*Specific chemical weight has been withheld as a trade secret.

# **4. FIRST AID MEASURES**

# First aid measures

Inhalation	Remove to fresh air. Keep at rest in a position comfortable for breathing. Get medical attention if discomfort persists.
Eye contact	Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. If irritation persists, get medical advice / attention.
Ingestion	Do NOT induce vomiting. Drink plenty of water or milk immediately. If vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Call a physician or poison control center
Skin Contact	immediately and provide an estimate of when and how much material was ingested. Wash with soap and water. If irritation persists, call a physician. Take off contaminated clothing and wash before reuse.

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

Symptoms Skin contact may aggravate an existing dermatitis. Direct contact with eyes may cause temporary irritation.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

# **5. FIRE-FIGHTING MEASURES**

#### **Extinguishing Media**

Suitable: Water, chemical (alcohol-resistant) foam, dry chemical, or carbon dioxide (CO<sub>2</sub>), Unsuitable: Water may not be effective in extinguishing this fire.

## Specific hazards arising from the chemical

For bulk size: Polymers are combustible dusts, care should be taken to avoid creating explosive concentrations in the air. Follow grounding and bonding procedures.

#### Special Fire Fighting Procedures:

Avoid extinguishing methods, which may generate dust clouds. Water stream can disperse dust into air producing a fire hazard and possible explosion hazard if exposed to ignition source. Firefighters should wear self-contained breathing apparatus.

## Protective equipment and precautions for firefighters

For bulk size: Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust. Polymers are sensitive to static charge, follow grounding and bounding procedures. Polymers are not sensitive to mechanical impacts.

# 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Remove any contaminated clothing and wash thoroughly before reuse.

# Methods and material for containment and clean-up

Method for containment	Prevent further leakage or spillage if safe to do so. Dike and contain spill with inert material, sand
	or earth. May contaminate water supply.
Method for clean-up	Sweep up to avoid slipping hazard. Keep airborne particulates at a minimum when cleaning up
	spills. Clean up in accordance with all applicable regulations. Wash all affected areas with plenty of
	warm water and soap.

# 7. HANDLING AND STORAGE

Precautions for safe handling Advice on safe handling

Use only in well-ventilated areas. Avoid contact with skin, eyes or clothing. Avoid breathing dust or fume. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep containers tightly closed to prevent water absorption and contamination. Store in a dry, cool and well-ventilated place away from direct sunlight or other sources of light or intense heat. Temperature not to exceed 35°C.	
Packaging materials	Keep in original container.	
Incompatible materials	Strong oxidizing agents	

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

# Exposure guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	
Benzoyl peroxide 94-36-0	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	
Appropriate engineering controls	Apply technical measures to comply with the occupational exposure limits. When working with large quantities of product, provide adequate ventilation (e.g. local exhaust ventilation, fans). Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes. Use good local exhaust at processing equipment, including buffers, sanders, grinders and polishers.			
Individual protection measures, such as personal protective equipment				
Eye / face protection	Depending on the use of this product, safety glasses or goggles may be worn. If necessary, refer to US OSHA 29 CFR SS1910.133, Canadian standards or the European Standard EN 166. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.			
Skin and body protection	If anticipated that prolonged and repeated skin contact will occur during use of this product, wear gloves for routine industrial use. If necessary, refer to US OSHA 29 CFR SS1910.138 or the appropriate standards of Canada or the EC member states.			
Respiratory protection	No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per US OSHA requirement in 29 CFR SS 1910.134, or applicable US state regulations, or the appropriate standards of Canada, its provinces, EC member states or Australia. VENTILATION: Local exhaust at processing equipment.			
General hygiene considerations	Handle in accordance with g	good industrial hygiene and safety p	ractice.	

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state Appearance Color	Powder Fine White to pigmented	Odor	Faint odor in bulk
Property	Values		
Flash point	<u>304°C / 579°F</u>		
Autoignition Temperature	80°C		
Evaporation rate	Not applicable		
Flammability limits in air			
Upper flammability limit	Not applicable		
Lower flammability limit	Not applicable		
Specific gravity	0		

# **10. STABILITY AND REACTIVITY**

Reactivity **Chemical stability** Possibility of hazardous reactions Hazardous polymerization Incompatible materials Hazardous decomposition products

Not reactive under normal conditions Stable under recommended storage conditions None under normal processing Does not occur. Strong oxidizing agents Methacrylate monomer, oxides of carbon when burned

# **11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposures Product information

Inhalation

Ingestion

This product has not been tested on animals to obtain toxicology data. Not expected to be an inhalation hazard under normal conditions of intended use Avoid contact with eyes. Eve contact Skin contact Avoid contact with skin. Do not taste or swallow.

Information on physical, chemical and toxicological effects See Section 4.

Symptoms

Delayed and immediate effects as well as chronic effects from short and long-term exposure Component Carcinogenicity No data available

# 12. ECOLOGICAL INFORMATION

**Component Ecotoxicity** 

There is no specific data available for this product; however, very large releases may be harmful or fatal to overexposed aquatic life. Not determined

Persistence and degradability Bioaccumulation Not determined Mobility Not determined Other adverse effects Not determined

# **13. DISPOSAL CONSIDERATIONS**

<u>Waste treatment methods</u> Disposal of wastes	Follow all local and national government regulations in disposing material or contaminated packaging.
Contaminated Packaging	For bulk only: Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards due to residual material associated with empty containers. Dispose of all empty containers properly in accordance with federal, state and local regulations.

# **14. TRANSPORTATION INFORMATION**

DOT	Not regulated
IATA	Not regulated
IMDG	Not regulated

# **15. REGULATORY INFORMATION**

#### International Inventories

EINECS This product is a medical device and not subject to chemical notification requirements.

#### **US Federal Regulations**

This product is an FDA regulated device and not subject to TSCA regulations. TSCA

SARA 302 - Extremely Hazardous - Not Listed

SARA 311 / 312 Hazard Categories - This product is an FDA regulated device and not subject to reporting requirements. SARA 313 - Toxic Chemicals, component Benzoyl peroxide 94-36-0 Listed

# **US State Regulations**

California Proposition 65 - This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin: None

16. OTHER INFORMATION						
HMIS Health Hazards Flammability Physical Hazards						
	1	1				
	1	1	0			

# Effective Date 26-May-2021

# 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 guidance for safe handling, use, processing, storage, transportation, disposal and release. It 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