

Page 1 / 11 Creation Date 22-Sep-2009 Revision Date 08-Jun-2024 Version 6

SDS No. Exempt, SR&D

MOEL's Public Notice No. 2023-9 (Standards for Classification and Labeling of Chemical Substances and Safety Data Sheets)

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

Product Identifier

Product Description: 1-Fluoro-2,4-dinitrobenzene

Cat No. : A11871

Synonyms 1-Fluoro-2,4-dinitrobenzene; DNF; Sanger`s Reagent

CAS No 70-34-8 Molecular Formula C6 H3 F N2 O4

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

Recommended Use Laboratory chemicals.
Uses advised against No Information available

Details of the supplier of the safety data sheet

Importer Supplier

Fisher Scientific Korea Thermo Fisher Scientific Chemicals, Inc.

D5,D6, Incheon Airport Logistics Complex 30 Bond Street

150, Gonghangdong-Ro 296 Beon-Gil Ward Hill, MA 01835-8099

Jung-Gu, Incheon Tel: +82-1661-9555 Fax: +82-2-2023-0603

E-mail address Chem.KR@thermofisher.com

Emergency Telephone Number

Emergency telephone: Medical: +(82) 070-7686-0086 or + 1-703-741-5970

CHEMTREC: 080 822 1374 (Local), CHEMTREC: 1-800-424-9300 or + 1-703-527-3887

Korea: 00-308-13-2549 (24 hours a day, 7 days a week)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Physical hazards

Based on available data, the classification criteria are not met

Health hazards

Acute Oral Toxicity	Category 3
Acute Dermal Toxicity	Category 3
Acute Inhalation Toxicity - Dusts and Mists	Category 3
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Skin Sensitization	Category 1
Specific target organ toxicity - (single exposure)	Category 3
Specific target organ toxicity - (repeated exposure)	Category 2

Environmental hazards

Based on available data, the classification criteria are not met

Label Elements



Signal Word

Danger

Hazard Statements

- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation
- H373 May cause damage to organs through prolonged or repeated exposure
- H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled

Precautionary Statements

Prevention

- P264 Wash hands and face thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P271 Use only outdoors or in a well-ventilated area
- P272 Contaminated work clothing should not be allowed out of the workplace
- P260 Do not breathe dust/fume/gas/mist/vapors/spray

Response

- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor
- P330 Rinse mouth
- P321 Specific treatment (see supplemental first aid instructions on this label)
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water
- P312 Call a POISON CENTER or doctor if you feel unwell
- P361 + P364 Take off immediately all contaminated clothing and wash it before reuse
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P311 Call a POISON CENTER or doctor
- P332 + P313 If skin irritation occurs: Get medical advice/attention
- P362 + P364 Take off contaminated clothing and wash it before reuse
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337 + P313 If eye irritation persists: Get medical advice/attention
- P314 Get medical advice/attention if you feel unwell

Storage

P405 - Store locked up

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

Disposal

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

Other Hazards

Toxic to terrestrial vertebrates

This product does not contain any known or suspected endocrine disruptors

1-Fluoro-2,4-dinitrobenzene Revision Date 08-Jun-2024

HealthFlammabilityInstabilityPhysical hazards310N/A

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

NFPA

Component	Common Name	CAS No	Index No	Weight %
Benzene, 1-fluoro-2,4-dinitro-	1-Fluoro-2,4-dinitrobe nzene; DNF;	70-34-8	Not listed	99 - 100
	Sanger`s Reagent			

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Eye Contact In the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice. Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth

method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Immediate medical attention is required.

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

None reasonably foreseeable. May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and

feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO₂). Dry chemical. Chemical foam.

Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture

1-Fluoro-2.4-dinitrobenzene

Revision Date 08-Jun-2024

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO₂), Gaseous hydrogen fluoride (HF).

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

Environmental precautions

Should not be released into the environment.

Methods and Material for Containment and Cleaning Up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Do not get in eyes, on skin, or on clothing. Wear personal protective equipment/face protection. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.

Conditions for Safe Storage, Including any Incompatibilities

Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

Specific End Uses

Use in laboratories.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Component CAS No		Korea	ACGIH TLV	OSHA PEL
Benzene, 1-fluoro-2,4-dinitro-	70-34-8	Not listed	Not listed	Not listed

Component	CAS No	European Union	The United Kingdom	Germany
Benzene,	70-34-8	Not listed	Not listed	Not listed
1-fluoro-2,4-dinitro-				

ACGIH - Biological Exposure Indices

Accin Biological Expo	ACCIT Biological Expedit indices					
Component	CAS No	ACGIH - Biological Exposure Indices				
Benzene,	70-34-8	Not listed				

1-Fluoro-2.4-dinitrobenzene

Revision Date 08-Jun-2024

1-fluoro-2,4-dinitro-

Exposure Controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection Goggles **Hand Protection** Protective gloves

Skin and body protectionWear appropriate protective gloves and clothing to prevent skin exposure

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Personal protective equipment

Respiratory Protection

Use only those certified by the Korea Occupational Safety and Health Administration.

When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators

Recommended Filter type: Particulates filter conforming to EN 143

To protect the wearer, respiratory protective equipment must be the correct fit and be used

and maintained properly

When RPE is used a face piece Fit Test should be conducted

Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls No information available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance (Physical State, Color, Dark yellow Solid

etc.)

Odor pungeni

Odor Threshold No data available pH Not applicable 4444

Melting Point/Range 23 - 26 °C / 73.4 - 78.8 °F

Softening Point

No data available

Boiling Point/Range

296 °C / 564.8 °F

Flack Point

Flash Point > 164 °C / > 327.2 °F Method - No information available

Evaporation Rate Not applicable Solid

Flammability (solid,gas)

Explosion Limits

No information available

No data available

1-Fluoro-2,4-dinitrobenzene Revision Date 08-Jun-2024

Vapor Pressure 1 mbar @ 20 °C

Vapor Density Not applicable Solid

Specific Gravity / Density 1.480

Bulk Density No data available

Water Solubility Insoluble

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Component	CAS No	log Pow	
Benzene, 1-fluoro-2,4-dinitro-	70-34-8	No data available	

Solid

Autoignition TemperatureNo data availableDecomposition TemperatureNo data available

Viscosity Not applicable

Explosive Properties No information available Oxidizing Properties No information available

Molecular Formula C6 H3 F N2 O4

Molecular Weight 186.1

SECTION 10: STABILITY AND REACTIVITY

Reactivity

None known, based on information available

<u>Chemical Stability</u>
Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

Conditions to Avoid

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

Incompatible products.

Incompatible Materials

Strong oxidizing agents. Strong bases.

Hazardous Decomposition Products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO2). Gaseous hydrogen

fluoride (HF).

SECTION 11: TOXICOLOGICAL INFORMATION

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

Product Information

1-Fluoro-2,4-dinitrobenzene Revision Date 08-Jun-2024

Information on expected route of exposure

InhalationNot an expected route of exposure.IngestionMay be harmful if swallowed.

Eyes Avoid contact with eyes. Irritating to eyes.

Skin Avoid contact with skin. May cause irritation. Harmful in contact with skin.

Information on Health Hazards

(a) acute toxicity;

OralCategory 3DermalCategory 3InhalationCategory 3

	Component	CAS No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Γ	Benzene, 1-fluoro-2,4-dinitro-	70-34-8	No data available	No data available	No data available

(b) skin corrosion/irritation; Category 2

(c) serious eye damage/irritation; Category 2

(d) respiratory or skin sensitization;

Respiratory No data available Skin Category 1

Component	CAS No	Test method	Test species	Study result
Benzene, 1-fluoro-2,4-dinitro-	70-34-8	No data available	No data available	No data available

No information available

(e) germ cell mutagenicity; No data available

Component	CAS No	Test method	Test species	Study result
Benzene, 1-fluoro-2,4-dinitro-	70-34-8	No data available	No data available	No data available

(f) carcinogenicity; No data available

Component	CAS No	Test method	Test species / Duration	Study result
Benzene, 1-fluoro-2,4-dinitro-	70-34-8	No data available	No data available	No data available

There are no known carcinogenic chemicals in this product

Component	CAS No	IARC	NTP	ACGIH	OSHA	UK
Benzene,	70-34-8	Not listed				
1-fluoro-2,4-dinitro-						

(g) reproductive toxicity; No data available

	Component	CAS No	Test method	Test species / Duration	Study result
Ε	Benzene, 1-fluoro-2,4-dinitro-	70-34-8	No data available	No data available	No data available

(h) STOT-single exposure; Category 3

Results / Target organs Respiratory system.

(i) STOT-repeated exposure; Category 2

Target Organs Kidney.

(j) aspiration hazard; Not applicable

1-Fluoro-2,4-dinitrobenzene

Solid

Other Adverse Effects

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.

Component	CAS No	EU - Endocrine	EU - Endocrine	Japan - Endocrine
		Disrupters Candidate	Disruptors - Evaluated	Disruptor Information
		List	Substances	-
Benzene, 1-fluoro-2,4-dinitro-	70-34-8	Not applicable	Not applicable	Not applicable

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity effects Contains no substances known to be hazardous to the environment or that are not

degradable in waste water treatment plants.

Component	CAS No	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Benzene, 1-fluoro-2,4-dinitro-	70-34-8	No data available	No data available	No data available	No data available

Persistence and degradability

Persistence Persistence is unlikely, based on information available, Insoluble in water.

Bioaccumulative potential May have some potential to bioaccumulate

Mobility in soil Spillage unlikely to penetrate soil The product is insoluble and sinks in water Is not likely

mobile in the environment due its low water solubility.

Ozone Depletion Potential

Component	CAS No	Ozone Depletion Potential
Benzene, 1-fluoro-2,4-dinitro-	70-34-8	Not listed

Other adverse effects No information available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues/Unused

Products

Waste is classified as hazardous. Dispose in accordance with the Wastes Control Act

(폐기물관리법).

Contaminated Packaging Dispose of this container to hazardous or special waste collection point.

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

was used. Do not empty into drains.

SECTION 14: TRANSPORT INFORMATION

Road and Rail Transport

UN-No UN2811

Proper Shipping Name Toxic solid, organic, n.o.s. Technical Shipping Name 2,4-Dinitrofluorobenzene

Hazard Class 6.1 Packing Group II

IATA

UN-No UN2811

Proper Shipping Name TOXIC SOLID, ORGANIC, N.O.S.*

Revision Date 08-Jun-2024

1-Fluoro-2,4-dinitrobenzene Revision Date 08-Jun-2024

Technical Shipping Name 2,4-Dinitrofluorobenzene

Hazard Class 6.1 Packing Group

IMDG/IMO

UN-No UN2811

Proper Shipping Name Toxic solid, organic, n.o.s. Technical Shipping Name 2,4-Dinitrofluorobenzene

Hazard Class 6.1 Packing Group

Marine Pollutant No hazards identified

Special Precautions for User No special precautions required

SECTION 15: REGULATORY INFORMATION

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

Legend: X - Listed '-' - Not Listed

International Inventories

Component	CAS No	KECL	TSCA	EINECS	IECSC	DSL	NDSL	PICCS	ENCS	ISHL	AICS
Benzene,	70-34-8	-	Х	200-734-3	Х	Χ	-	Х	Х	Χ	Х
1-fluoro-2,4-dinitro-											1

Component	CAS No	Seveso III Directive Seveso III Directive (2012/18/EC) - (2012/18/EC) -		Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
		Qualifying Quantities	, ,	,,	
		for Major Accident	for Safety Report		
		Notification	Requirements		
Benzene, 1-fluoro-2,4-dinitro-	70-34-8	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential
Benzene, 1-fluoro-2,4-dinitro-	70-34-8	Not applicable	Not applicable	Not applicable

Korean National Regulations

Component		Act on Registration and Evaluation of Chemical Substances (K-REACH)	Authorised Chemicals	Existing Substances Subject to Registration
Benzene, 1-fluoro-2,4-dinitro-	70-34-8	Not applicable	Not applicable	Not applicable

Component	CAS No	Chemical Control Act - Toxic Chemicals	Chemical Control Act - Prohibited Chemicals	Chemical Control Act - Use Restricted Chemicals
Benzene, 1-fluoro-2,4-dinitro-	70-34-8	Not applicable	Not applicable	Not applicable

Component	CAS No	Chemical Control Act -	Chemical Control Act -	Chemical Control Act -
		Accident Precaution	Accident Precaution	Accident Precaution
		Chemicals (% in	Chemicals - Quantity	Chemicals - Quantity
		mixtures)	limits Storage (% in	limits Manufacture/Use
		-	mixtures)	(% in mixtures)
Benzene, 1-fluoro-2,4-dinitro-	70-34-8	Not applicable	Not applicable	Not applicable

Component	CAS No	Waste Control Law	Ministry of Environment -	Ministry of Environment -
-			CMR risk	Critically Controlled
				Substance
Benzene, 1-fluoro-2,4-dinitro-	70-34-8	Not applicable	Not applicable	Not applicable

1-Fluoro-2,4-dinitrobenzene

Revision Date 08-Jun-2024

Component	CAS No	ISHA - Harmful Agents Subject to Work Environment Monitoring	ISHA - Prohibited substances	ISHA - Substances requiring permission
Benzene, 1-fluoro-2,4-dinitro-	70-34-8	Not applicable	Not applicable	Not applicable

Component	CAS No	ISHA - Substances subject to control	ISHA - Harmful Agents Requiring Health Examination	ISHA - Permissible Exposure Limits
Benzene, 1-fluoro-2,4-dinitro-	70-34-8	Not applicable	Not applicable	Not applicable

Component	CAS No	ISHA - Subject to Process Safety Reports (minimum quantity)	ISHA - Threshold Limit Values (TLVs) Chemicals	ISHA - Special management materials	
Benzene, 1-fluoro-2,4-dinitro-	70-34-8	Not applicable	Not applicable	Not applicable	

National Fire Association - Dangerous Substances Minimum quantity requiring a permit

Component	CAS No	Class 1 - Oxidising solids	Class 2 - Flammable solid	Class 3 - Spontaneously Combustible Substances and Dangerous Substances When Wet	Class 4 - Flammable liquids	Class 5 - Self-reactive substances	Class 6 - Oxidising liquids
Benzene, 1-fluoro-2,4-dinitro-	70-34-8	Not applicable	9. Flammable solids 1000 kg	Not applicable	Not applicable	Not applicable	Not applicable

Control Parameters

Component	CAS No	Korea	ACGIH - Biological Exposure Indices
Benzene, 1-fluoro-2,4-dinitro-	70-34-8	Not listed	Not listed

US Management Information

OSHA - Occupational Safety and Health Administration

Not applicable

Component	CAS No	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Benzene, 1-fluoro-2,4-dinitro-	70-34-8	Not applicable	Not applicable
CERCLA	Not applicable		

Component	CAS No	CERCLA Extremely Hazardous Substances RQs	Hazardous Substances RQs	SARA 313 - Threshold Values %
Benzene, 1-fluoro-2,4-dinitro-	70-34-8	Not applicable	Not applicable	Not applicable

GHS Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Danger.

H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H373 - May cause damage to organs through prolonged or repeated exposure.

P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. 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. P311 - Call a POISON CENTER or doctor/physician.

Revision Date 08-Jun-2024

SECTION 16: OTHER INFORMATION

Legend

CAS - Chemical Abstracts Service

TSCA - United States Toxic Substances Control Act Section 8(b)

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances NZIoC - New Zealand Inventory of Chemicals

KECL - Korean Existing and Evaluated Chemical Substances

WEL - Workplace Exposure Limit ACGIH - American Conference of Governmental Industrial Hygienists TWA - Time Weighted Average IARC - International Agency for Research on Cancer

RPE - Respiratory Protective Equipment LC50 - Lethal Concentration 50%

LD50 - Lethal Dose 50%

POW - Partition coefficient Octanol:Water

EC50 - Effective Concentration 50%

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

BCF - Bioconcentration factor

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from

Ships

ATE - Acute Toxicity Estimate VOC - (Volatile Organic Compound)

Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Prepared By Health, Safety and Environmental Department

Creation Date 22-Sep-2009 **Revision Date** 08-Jun-2024

Revision Number 6

Revision Summary New emergency telephone response service provider.

MOEL's Public Notice No. 2023-9 (Standards for Classification and Labeling of Chemical **Substances and Safety Data Sheets)**

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