

SAFETY DATA SHEET

Published DateRevision DateRevision NumberMay-15-2019May-15-20192.5

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

Product identifier

Product code 5119
Product name Fire Red

Product category 5100 Series SV Screen Ink

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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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

Skin Corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitization	Category 1 - (H317)
Carcinogenicity	Category 1B - (H350)
Flammable liquids	Category 3 - (H226)

Label elements









Signal Word Danger

Hazard Statements

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H350 - May cause cancer

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H226 - Flammable liquid and vapor

Precautionary Statements

P264 - Wash face, hands and any exposed skin thoroughly after handling

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

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

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

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)

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Inhalation

Ingestion

Component	CAS-No	Weight %	Trade Secret	Note
Resin	Trade Secret	10 - 30	*	
Resin	Trade Secret	10 - 30	*	
1-Butanol	71-36-3	10 - 30	*	
Dipropylene glycol monomethyl ether	34590-94-8	5 - 10	*	
Ethylene glycol monopropyl ether	2807-30-9	5 - 10	*	
2-Butoxyethanol	111-76-2	5 - 10	*	
Silicon dioxide, amorphous	7631-86-9	1 - 5	*	
Formaldehyde	50-00-0	< 0.5	*	

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

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

remove person to restrain and keep comortable for breathing. It breathing is free

stopped, administer artificial respiration. Get medical attention immediately.

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

Suitable Extinguishing Media

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

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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
1-Butanol	TWA: 20 ppm
71-36-3	
Dipropylene glycol monomethyl ether	TWA: 100 ppm
34590-94-8	STEL: 150 ppm
	Skin
2-Butoxyethanol	TWA: 20 ppm
111-76-2	
Formaldehyde	TWA: 0.1 ppm
50-00-0	STEL: 0.3 ppm

Component	OSHA PEL
1-Butanol	TWA: 100 ppm

71-36-3	TWA: 300 mg/m ³
Dipropylene glycol monomethyl ether	TWA: 100 ppm
34590-94-8	TWA: 600 mg/m ³
	Skin
2-Butoxyethanol	TWA: 50 ppm
111-76-2	TWA: 240 mg/m ³
	Skin
Formaldehyde	TWA: 0.75 ppm
50-00-0	STEL: 2 ppm

Component	OSHA PEL (vacated)
1-Butanol	Ceiling: 50 ppm
71-36-3	Ceiling: 150 mg/m ³
	Skin
Dipropylene glycol monomethyl ether	TWA: 100 ppm
34590-94-8	TWA: 600 mg/m ³
	STEL: 150 ppm
	STEL: 900 mg/m ³
	Skin
2-Butoxyethanol	TWA: 25 ppm
111-76-2	TWA: 120 mg/m ³
	Skin
Silicon dioxide, amorphous	TWA: 6 mg/m ³
7631-86-9	
Formaldehyde	Ceiling: 5 ppm
50-00-0	TWA: 3 ppm
	STEL: 10 ppm

Component	Ontario TWAEV
1-Butanol	TWA: 20 ppm
71-36-3	
Dipropylene glycol monomethyl ether	TWA: 100 ppm
34590-94-8	STEL: 150 ppm
	Skin
Ethylene glycol monopropyl ether	TWA: 25 ppm
2807-30-9	TWA: 110 mg/m ³
	Skin
2-Butoxyethanol	TWA: 20 ppm
111-76-2	
Formaldehyde	STEL: 1 ppm
50-00-0	Ceiling: 1.5 ppm

Component	Mexico OEL (TWA)
1-Butanol	Ceiling: 50 ppm
71-36-3	Ceiling: 150 mg/m ³
Dipropylene glycol monomethyl ether	TWA/VLE-PPT: 100 ppm
34590-94-8	TWA/VLE-PPT: 60 mg/m ³
	STEL/PPT-CT: 150 ppm
	STEL/PPT-CT: 900 mg/m ³
2-Butoxyethanol	TWA/VLE-PPT: 26 ppm
111-76-2	TWA/VLE-PPT: 120 mg/m ³
	STEL/PPT-CT: 75 ppm
	STEL/PPT-CT: 360 mg/m ³
Formaldehyde	Ceiling: 2 ppm
50-00-0	Ceiling: 3 mg/m ³

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): eg. 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

Odor Characteristic Odor Threshold No information available

PropertyValuesRemarks • MethodpHNo data available

Melting Point / Freezing Point No data available

No data available

Evaporation rate No data available

Flammability Limit in Air
Upper flammability limit
No data available

Lower flammability limit

Vapor Pressure

No data available
No data available
No data available

Vapor Density

No data available

Specific Gravity 1.06
Water Solubility No data available

Solubility in other solvents

Partition coefficient: n-octanol/water

No data available

Autoignition Temperature

Decomposition temperature

No data available

No data available

No data available

No data available

Kinematic viscosityNo data availableDynamic viscosityNo data available

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

Other Information

Photochemically Reactive No Weight Per Gallon (lbs/gal) 8.8

VOC by weight %	VOC by volume %	VOC lbs/gal	VOC grams/liter
(less water)	(less water)	(less water)	(less water)
42.51	45.55	3.74	448.73

10. STABILITY AND REACTIVITY

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
1-Butanol 71-36-3	= 700 mg/kg (Rat)
Dipropylene glycol monomethyl ether 34590-94-8	= 5.35 g/kg (Rat)
Ethylene glycol monopropyl ether 2807-30-9	= 3089 mg/kg (Rat)
2-Butoxyethanol 111-76-2	= 470 mg/kg (Rat)
Silicon dioxide, amorphous 7631-86-9	= 7900 mg/kg (Rat)
Formaldehyde 50-00-0	= 100 mg/kg(Rat)

Component	Dermal LD50
1-Butanol	= 3402 mg/kg (Rabbit)
71-36-3	
Dipropylene glycol monomethyl ether	= 9500 mg/kg (Rabbit)
34590-94-8	
Ethylene glycol monopropyl ether	= 870 mg/kg (Rabbit)
2807-30-9	
2-Butoxyethanol	= 435 mg/kg (Rabbit)
111-76-2	
Silicon dioxide, amorphous	> 2000 mg/kg (Rabbit)
7631-86-9	
Formaldehyde	= 270 mg/kg (Rabbit)
50-00-0	

Component	Inhalation LC50
1-Butanol	> 8000 ppm (Rat) 4 h
71-36-3	

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Ethylene glycol monopropyl ether 2807-30-9	= 1530 ppm(Rat)7 h
2-Butoxyethanol 111-76-2	= 450 ppm (Rat)4 h = 486 ppm (Rat)4 h
Silicon dioxide, amorphous 7631-86-9	> 2.2 mg/L (Rat)1 h
Formaldehyde 50-00-0	= 0.578 mg/L (Rat) 4 h

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/irritation Specific test data for the substance or mixture is not available. Causes skin irritation (pain,

redness and swelling). (based on components).

Eye damage/irritation Specific test data for the substance or mixture is not available. Causes serious eye

damage. (based on components).

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

Sensitization Specific test data for the substance or mixture is not available. May cause an allergic skin

reaction. (based on components).

Mutagenic Effects Specific test data for the substance or mixture is not available.

Carcinogenic effects Specific test data for the substance or mixture is not available. May cause cancer. (based

on components).

Reproductive Effects
STOT - single exposure
STOT - repeated exposure
Chronic Toxicity
Specific test data for the substance or mixture is not available.
Specific test data for the substance or mixture is not available.
Specific test data for the substance or mixture is not available.
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Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.		
Component		ACGIH	
2-Butoxyethanol		A3	
111-76-2			
Formaldehyde		A1	
50-00-0			

Component	IARC
Formaldehyde	Group 1
50-00-0	

Component	NTP
Formaldehyde	Known
50-00-0	

Component	OSHA
Formaldehyde	X
50-00-0	

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) 2,265.00 mg/kg
ATEmix (dermal) 6,802.00 mg/kg
ATEmix (inhalation-dust/mist) 18.20 mg/l
ATEmix (inhalation-vapor) 131.00 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

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

Component	Algae/aquatic plants
1-Butanol	96h EC50 Desmodesmus subspicatus: > 500 mg/L
71-36-3	72h EC50 Desmodesmus subspicatus: > 500 mg/L
Silicon dioxide, amorphous	72h EC50 Pseudokirchneriella subcapitata: = 440 mg/L
7631-86-9	,

Component	Fish
1-Butanol	96h LC50 Pimephales promelas: 1730 - 1910 mg/L (static)
71-36-3	96h LC50 Pimephales promelas: = 1740 mg/L (flow-through)
	96h LC50 Lepomis macrochirus: 100000 - 500000 μg/L (static)
	96h LC50 Pimephales promelas: = 1910000 μg/L (static)
Dipropylene glycol monomethyl ether	96h LC50 Pimephales promelas: > 10000 mg/L (static)
34590-94-8	
2-Butoxyethanol	96h LC50 Lepomis macrochirus: = 2950 mg/L
111-76-2	96h LC50 Lepomis macrochirus: = 1490 mg/L (static)
Silicon dioxide, amorphous	96h LC50 Brachydanio rerio: = 5000 mg/L (static)
7631-86-9	
Formaldehyde	96h LC50 Oncorhynchus mykiss: 0.032 - 0.226 mL/L
50-00-0	(flow-through)
	96h LC50 Lepomis macrochirus: = 1510 μg/L (static)
	96h LC50 Brachydanio rerio: = 41 mg/L (static)
	96h LC50 Pimephales promelas: 22.6 - 25.7 mg/L (flow-through)
	96h LC50 Pimephales promelas: 23.2 - 29.7 mg/L (static)
	96h LC50 Oncorhynchus mykiss: 100 - 136 mg/L (static)

Component	Crustacea
1-Butanol 71-36-3	48h EC50 Daphnia magna: 1897 - 2072 mg/L Static 48h EC50 Daphnia magna: = 1983 mg/L
Dipropylene glycol monomethyl ether 34590-94-8	48h LC50 Daphnia magna: = 1919 mg/L
2-Butoxyethanol 111-76-2	48h EC50 Daphnia magna: > 1000 mg/L
Silicon dioxide, amorphous 7631-86-9	48h EC50 Ceriodaphnia dubia: = 7600 mg/L
Formaldehyde 50-00-0	48h LC50 Daphnia magna: = 2 mg/L 48h EC50 Daphnia magna: 11.3 - 18 mg/L Static

Persistence and Degradability

No information available.

Bioaccumulation

No information available

Component	Partition coefficient
1-Butanol	0.785
71-36-3	
Dipropylene glycol monomethyl ether	-0.064
34590-94-8	
2-Butoxyethanol	0.81
111-76-2	
Formaldehyde	0.35
50-00-0	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Methods

Contain and dispose of waste according to local regulations.

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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 UN1210
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
1-Butanol	71-36-3	10 - 30	1.0
Ethylene glycol monopropyl ether	2807-30-9	5 - 10	1.0
2-Butoxyethanol	111-76-2	5 - 10	1.0
Formaldehyde	50-00-0	< 0.5	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 %
Ethylene glycol monopropyl ether	2807-30-9	5 - 10
Formaldehyde	50-00-0	< 0.5

U.S. State Regulations

	Massachusetts Right To Know
1-Butanol	X
71-36-3	

Dipropylene glycol monomethyl ether
34590-94-8

2-Butoxyethanol
111-76-2

Silicon dioxide, amorphous
7631-86-9

Formaldehyde
50-00-0

X

X

X

X

X

X

X

X

X

'	Minnesota
	Right To Know
1-Butanol	X
71-36-3	
Dipropylene glycol monomethyl ether	X
34590-94-8	
2-Butoxyethanol	X
111-76-2	
Silicon dioxide, amorphous	X
7631-86-9	
Formaldehyde	X
50-00-0	

Component	New Jersey Right To Know	
1-Butanol	Χ	
71-36-3		
Dipropylene glycol monomethyl ether	Χ	
34590-94-8		
Ethylene glycol monopropyl ether	Χ	
2807-30-9		
2-Butoxyethanol	Χ	
111-76-2		
Formaldehyde	Χ	
50-00-0		

Component	Pennsylvania Right To Know
1-Butanol	X
71-36-3	
Dipropylene glycol monomethyl ether	X
34590-94-8	
Ethylene glycol monopropyl ether	X
2807-30-9	
2-Butoxyethanol	X
111-76-2	
Silicon dioxide, amorphous	X
7631-86-9	
Formaldehyde	X
50-00-0	

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
Formaldehyde	Carcinogen

Canada

Component	NPRI - National Pollutant Release Inventory
1-Butanol	Part 1, Group A Substance; Part 4 Substance
71-36-3	
Dipropylene glycol monomethyl ether 34590-94-8	Part 5, Other Groups and Mixtures; Part 4 Substance
Ethylene glycol monopropyl ether 2807-30-9	Part 5, Other Groups and Mixtures; Part 4 Substance
2-Butoxyethanol 111-76-2	Part 5, Individual Substances; Part 4 Substance

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Formaldehyde	Part 5, Individual Substances; Part 4 Substance
50-00-0	

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-15-2019

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