according to the OSHA Hazard Communication Standard



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 Version
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 4.0
 08/19/2025
 203000000026
 Country / Language: US / EN

SECTION 1. IDENTIFICATION

Product name : BAYFERROX 645 T

Product code : 00000000002388727

Manufacturer or supplier's details

Company : LANXESS Corporation

Product Safety & Regulatory Affairs

111 RIDC Park West Drive

Pittsburgh, Pennsylvania 15275-1112

Responsible Department : (800) LANXESS

(412) 809-1000

lanxesshes@lanxess.com

Emergency telephone : CHEMTREC (800) 424-9300 or

(703) 527-3887 (Outside U.S.A) and mention CCN12916.

Lanxess Emergency Phone (800) 410-3063.

Recommended use of the chemical and restrictions on use

Recommended use : Colorants (pigments and dyestuffs), inorganic

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards for the product as supplied

Specific target organ toxicity :

repeated exposure (Inhala-

tion)

: Category 2 (Central nervous system)

Other hazards

None known.

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GHS label elements

Hazard pictograms



Signal Word : Warning

Hazard Statements : H373 May cause damage to organs (Central nervous system)

through prolonged or repeated exposure if inhaled.

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Precautionary Statements : Prevention:

P260 Do not breathe dust.

Response:

P314 Get medical advice/ attention if you feel unwell.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Chemical nature : FeMnO3

Components

Chemical name	CAS No./Unique ID	Concentration (% w/w)
Manganese Ferrite Spinel	68186-94-7*	>= 80 - <= 100

^{*} Indicates that the identifier is a CAS No.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air.

Get medical attention if symptoms occur.

Get medical attention immediately.

Remove victim to fresh air and keep at rest in a position com-

fortable for breathing.

If unconscious, place in recovery position and get medical

attention immediately. Maintain open airway.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained per-

sonnel.

In case of skin contact : Wash off with soap and water.

Get medical attention if symptoms occur.

In case of eye contact : Immediately flush eyes with plenty of water, occasionally lifting

the upper and lower eyelids. Remove contact lenses.

Get medical attention if symptoms appear.

If swallowed : Rinse mouth with water.

Do NOT induce vomiting.

Get medical attention if symptoms occur.

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Most important symptoms and effects, both acute and delayed

Symptoms : May cause irritation with symptoms of reddening and itching.

Eye: May cause irritation with symptoms of reddening, tearing

and stinging.

Effects : May cause mechanical irritation (abrasion).

May cause damage to organs through prolonged or repeated

exposure if inhaled.

Protection of first-aiders : No action shall be taken involving any personal risk or without

suitable training.

If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing

apparatus.

Notes to physician : Treat symptomatically.

The exposed person may need to be kept under medical sur-

veillance for 48 hours.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : In case of fire, use water spray (fog), foam, dry chemical or

 CO_2 .

Unsuitable extinguishing

media

None known.

Specific hazards during fire

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Toxic and irritating gases/fumes may be given off during burn-

ing or thermal decomposition.

Hazardous combustion prod: :

ucts

No hazardous combustion products are known

Further information : Standard procedure for chemical fires.

Promptly isolate the scene by removing all persons from the

vicinity of the incident if there is a fire.

No action shall be taken involving any personal risk or without

suitable training.

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Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

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> Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment:

for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency procedures

No action shall be taken involving any personal risk or without

suitable training.

Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilled material.

Avoid breathing dust.

Provide adequate ventilation.

Avoid dust formation.

In case of inadequate ventilation wear respiratory protection.

Use personal protective equipment.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains and sewers.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Move containers from spill area.

Vacuum or sweep up material and place in a designated, la-

beled waste container.

Dispose of wastes in an approved waste disposal facility.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : For personal protection see section 8.

Avoid contact with skin and eyes.

Provide sufficient air exchange and/or exhaust in work rooms. In case of insufficient ventilation, wear suitable respiratory

equipment.

Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in

use

Dispose of rinse water in accordance with local and national

regulations.

Workers should wash hands and face before eating, drinking

and smoking.

Conditions for safe storage : Store in accordance with local regulations.

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible

materials (see Section 10) and food and drink.

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Keep containers tightly closed in a dry, cool and well-

ventilated place.

Containers that have been opened must be carefully resealed

and kept upright to prevent leakage.

Electrical installations / working materials must comply with

the technological safety standards.

Do not store near sources of heat (furnaces, kilns, boilers,

etc.).

Exposure to excessive heat may cause this product to become unstable (slowly auto-oxidize) which generates additional heat. Under certain circumstances this heat generation may be sufficient to cause combustible materials to ignite. Do not store near strong oxidizers, sources of heat, or near flam-

mable or combustible materials.

Further information on stor-

age stability

Keep in a dry place.

No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

inert or nuisance dust 50 Million particles per cubic foot

Value type (Form of exposure): TWA (total dust)

Basis: OSHA Z-3

15 mg/m3

Value type (Form of exposure): TWA (total dust)

Basis: OSHA Z-3

5 mg/m3

Value type (Form of exposure): TWA (respirable fraction)

Basis: OSHA Z-3

15 Million particles per cubic foot

Value type (Form of exposure): TWA (respirable fraction)

Basis: OSHA Z-3

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Manganese Ferrite Spinel	68186-94-7	С	5 mg/m3 (Manganese)	OSHA Z-1
		TWA (Inhal- able particu- late matter)	0.1 mg/m3 (Manganese)	ACGIH
		TWA (Res- pirable par-	0.02 mg/m3 (Manganese)	ACGIH

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ticulate matter)

Engineering measures : Good general ventilation should be sufficient to control work-

er exposure to airborne contaminants.

Personal protective equipment

Respiratory protection : Dust-protection mask if there is a risk of dust formation.

Hand protection

Material : Gloves

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear suitable protective clothing.

Hygiene measures : General industrial hygiene practice.

When using do not eat, drink or smoke.

Wash face, hands and any exposed skin thoroughly after

handling.

Wash contaminated clothing before reusing.

Remove contaminated clothing and protective equipment

before entering eating areas.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Physical state : solid

Color : brown

Odor : odorless

Odor Threshold : No data available

pH : substance/mixture is non-soluble (in water)

Melting point/ range : $> 1,832 \, ^{\circ}\text{F} / > 1,000 \, ^{\circ}\text{C}$

Boiling point/boiling range : No data available

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Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Self-ignition : No data available

Burning number : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : Not applicable

Relative vapor density : No data available

Relative density : No data available

Density : 4.5 g/cm3 (68 °F / 20 °C)

Bulk density : 300 - 1,000 kg/m3

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No specific test data related to reactivity available for this

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product or its ingredients.

Chemical stability : The product is chemically stable.

Possibility of hazardous reac-

tions

No dangerous reaction known under conditions of normal use.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition

products

No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Eye contact Skin contact

Acute toxicity

Not classified due to lack of data.

Components:

Manganese Ferrite Spinel:

Acute oral toxicity : LD50 (Rat, male): > 10,000 mg/kg

Method: Standard acute method GLP: No information available.

Remarks: Dosage caused no mortality

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.05 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: Yes

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Dosage caused no mortality

Test results on an analogous substance/product.

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Components:

Manganese Ferrite Spinel:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : No information available.

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Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Components:

Manganese Ferrite Spinel:

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405 GLP : No information available.

Respiratory or skin sensitization

Skin sensitization

Based on available data, the classification criteria are not met.

Respiratory sensitization

Not classified due to lack of data.

Components:

Manganese Ferrite Spinel:

Test Type : Maurer optimisation test

Routes of exposure : Intradermal Species : Guinea pig

Result : Did not cause sensitization on laboratory animals.

GLP : No

Remarks : Test results on an analogous substance/product.

Germ cell mutagenicity

Not classified due to lack of data.

Components:

Manganese Ferrite Spinel:

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative GLP: Yes

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative GLP: Yes

Remarks: Test results on an analogous substance/product.

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster fibroblasts

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

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Result: negative GLP: Yes

Remarks: Test results on an analogous substance/product.

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster fibroblasts

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative GLP: Yes

Remarks: Test results on an analogous substance/product.

Test Type: Micronucleus test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 487

Result: negative GLP: Yes

Remarks: Test results on an analogous substance/product.

Genotoxicity in vivo : Test Type: In vivo mammalian alkaline comet assay

Species: Rat (male) Application Route: Oral

Method: OECD Test Guideline 489

Result: negative GLP: Yes

Remarks: Test results on an analogous substance/product.

Carcinogenicity

Not classified due to lack of data.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified due to lack of data.

Components:

Manganese Ferrite Spinel:

Effects on fertility : Test Type: Fertility/early embryonic development

Species: Rat, male and female

Application Route: Oral

Dose: 500 - 1000 - 2000 mg/kg bw/day

General Toxicity Parent: NOAEL: 500 mg/kg bw/day

Fertility: NOAEL: >= 2,000 mg/kg bw/day Method: OECD Test Guideline 422

GLP: Yes

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Remarks: Test results on an analogous substance/product.

Test Type: Fertility/early embryonic development

Species: Rat, male and female

Application Route: Oral

Dose: 30 - 100 - 300 - 1000 mg/kg bw/day

General Toxicity Parent: NOAEL: 300 mg/kg bw/day

Fertility: NOAEL: >= 1,000 mg/kg bw/day Method: OECD Test Guideline 422

GLP: Yes

Remarks: Test results on an analogous substance/product.

STOT-single exposure

Not classified due to lack of data.

STOT-repeated exposure

May cause damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.

Components:

Manganese Ferrite Spinel:

Routes of exposure : Inhalation

Target Organs : Central nervous system

Assessment : May cause damage to organs through prolonged or repeated

exposure.

Repeated dose toxicity

Components:

Manganese Ferrite Spinel:

Species : Rat, male and female NOAEL : >= 1,000 mg/kg

Application Route : Oral Exposure time : 90 d Number of exposures : daily

Dose : 100 - 300 - 1000 mg/kg bw/day Method : OECD Test Guideline 408

GLP : Yes

Remarks : Subchronic toxicity

Test results on an analogous substance/product.

Species : Rat, male NOAEL : 10,1 mg/m³

Application Route : inhalation (dust/mist/fume)

Exposure time : 28 d

Number of exposures : 6 hours/day, 5 days/week

Dose : 10,1 - 19,7 - 45,6 - 95,8 mg/m³

Method : OECD Test Guideline 412

GLP : Yes

Remarks : Subacute toxicity

Test results on an analogous substance/product.

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Species : Rat, male and female

NOAEL : 4.7 mg/m^3

Application Route : inhalation (dust/mist/fume)

Exposure time : 91 d

Number of exposures : 6 hours/day, 5 days/week
Dose : 4,7 - 16,6 - 52,1 mg/m³
Method : OECD Test Guideline 413

GLP : Yes

Remarks : Subchronic toxicity

Test results on an analogous substance/product.

Aspiration toxicity

Not classified due to lack of data.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Manganese Ferrite Spinel:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100,000 mg/l

Exposure time: 96 h Test Type: static test Analytical monitoring: No

GLP: No

Remarks: Fresh water nominal concentration

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: No

Method: Regulation (EC) No. 440/2008, Annex, C.2

GLP: No

Remarks: Fresh water nominal concentration

Toxicity to algae/aquatic

plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)): >

20 mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: Yes

Method: OECD Test Guideline 201 GLP: No information available.

Remarks: Fresh water nominal concentration

No toxicity at the limit of solubility.

Test results on an analogous substance/product.

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NOEC (Raphidocelis subcapitata (freshwater green alga)): >=

20 mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: Yes

Method: OECD Test Guideline 201 GLP: No information available.

Remarks: Fresh water nominal concentration

Test results on an analogous substance/product.

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): >= 20 mg/l

End point: reproduction rate

Exposure time: 21 d Test Type: semi-static test Analytical monitoring: Yes

Method: OECD Test Guideline 211 GLP: No information available.

Remarks: Fresh water nominal concentration

Test results on an analogous substance/product.

Toxicity to microorganisms

EC50 (activated sludge): >= 10,000 mg/l

End point: Respiration inhibition

Exposure time: 3 h Test Type: static test Analytical monitoring: No

Method: OECD Test Guideline 209

GLP: No

Remarks: Fresh water nominal concentration

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

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Additional ecological infor-

mation

Ecotoxicological data are not available.

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No known significant effects or critical hazards.

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Authorization Act

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Waste from residues : The generation of waste should be avoided or minimized

wherever possible.

This material and its container must be disposed of in a safe

way.

Empty containers retain product residue; observe all precau-

tions for product.

Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains and sewers.

Waste disposal should be in accordance with existing federal,

state, provincial and/or local environmental controls.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

Hazard and Handling Notes

Not dangerous cargo

Keep separated from foodstuffs

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

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SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Specific target organ toxicity (single or repeated exposure)

SARA 313 : The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

Manganese Fer- 68186-94-7 >= 90 - <= 100 %

rite Spinel

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Manganese Ferrite Spinel 68186-94-7 sodium sulphate 7757-82-6

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Potential exposure to some or all of the California Proposition 65 chemicals in this product have been determined to be below the No Significant Risk Level (NSRL).

TSCA inventory

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

according to the OSHA Hazard Communication Standard



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NFPA 704:

Health O O Instability

Special hazard

HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min-

eral Dusts

ACGIH / TWA : 8-hour, time-weighted average

OSHA Z-1 / C : Ceiling

OSHA Z-3 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI -Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumu-

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lative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. 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 to be a guidance for processing and does not contain any 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. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.

Relevant changes from the previous version are marked on the left side of the Safety Data Sheet with a black double bar in appropriate places.

US / EN