PERMECTRIN® II



Version Revision Date: SDS Number: Date of last issue: -

1.0 06/23/2020 122000008520 Date of first issue: 23.06.2020

SECTION 1. IDENTIFICATION

Product information

Product Name : PERMECTRIN® II SDS Number : 122000008520

Use : Pesticide

Company Elanco US Inc. 2500 Innovation Way Greenfield, IN 46140 USA

+1-877-Elanco1(+1-877-3526261)

elanco_sds@elanco.com

In case of emergency: CHEMTREC International: +1 703-527-3887 (24 hours)

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Flammable liquids : Category 4

Acute toxicity (Oral) : Category 4

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitisation : Category 1

Germ cell mutagenicity : Category 1B

Carcinogenicity : Category 1B

GHS label elements

Hazard pictograms :





Signal word : Danger

Hazard statements : H227 Combustible liquid.

H302 Harmful if swallowed. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation. H340 May cause genetic defects.

H350 May cause cancer.

PERMECTRIN® II



Version **Revision Date:** SDS Number: Date of last issue: -

06/23/2020 122000008520 Date of first issue: 23.06.2020 1.0

Precautionary statements Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces.

No smoking.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Permethrin	52645-53-1	10
Nonionic surfactant	Not Assigned	6,5
Benzenesulfonic acid, mono-C11-13- branched alkyl derivs., calcium salts	68953-96-8	2,2
n-Butanol	71-36-3	1,5
Solvent naphtha (petroleum), light arom.	64742-95-6	1

SECTION 4. FIRST AID MEASURES

General advice Take off all contaminated clothing immediately.

If inhaled Remove to fresh air.

Call a physician immediately.

In case of skin contact After contact with skin, wash immediately with plenty of soap

and water.

If skin reactions occur, contact a physician.

In case of eye contact In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

If swallowed In case of accidental ingestion, contact your regional poison

center or physician immediately.

Most important symptoms

and effects, both acute and

delayed

No information available.

No information available. Notes to physician

PERMECTRIN® II



Version Revision Date: SDS Number: Date of last issue: -

1.0 06/23/2020 122000008520 Date of first issue: 23.06.2020

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or car-

bon dioxide.

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during fire-

fighting

Fire may cause evolution of: Carbon monoxide (CO)

Carbon dioxide (CO2)

Further information : Prevent fire extinguishing water from contaminating surface

water or the ground water system.

Special protective equipment :

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency procedures

Use personal protective equipment. No special precautions required.

Methods and materials for containment and cleaning up

Cover spilled product with liquid-binding material (sand, silica gel, acid binder, universal binder, hybilat). Take up mechani-

cally and fill into labeled, closable containers.

SECTION 7. HANDLING AND STORAGE

Advice on protection against :

fire and explosion

No special protective measures against fire required.

Advice on safe handling : Avoid formation of aerosol.

Use with local exhaust ventilation.

Avoid contact with skin, eyes and clothing.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Permethrin	52645-53-1	SUP	10 mg/m³	
n-Butanol	71-36-3	TWA	20 ppm	ACGIH
		TWA	20 ppm	ACGIH
		С	50 ppm	NIOSH REL
			150 mg/m ³	
		С	50 ppm	NIOSH REL
			150 mg/m ³	
		TWA	100 ppm	OSHA Z-1

PERMECTRIN® II



Version Revision Date: SDS Number: Date of last issue: -

1.0 06/23/2020 122000008520 Date of first issue: 23.06.2020

			300 mg/m ³	
		TWA	100 ppm 300 mg/m³	OSHA Z-1
		С	50 ppm 150 mg/m³	OSHA P0
		С	50 ppm 150 mg/m³	OSHA P0
Solvent naphtha (petroleum), light arom.	64742-95-6	TWA	500 ppm 2.000 mg/m ³	OSHA Z-1
		TWA	500 ppm 2.000 mg/m ³	OSHA Z-1
		TWA	200 mg/m³ (total hydrocarbon vapor)	ACGIH
		TWA	200 mg/m³ (total hydrocarbon vapor)	ACGIH
		TWA	400 ppm 1.600 mg/m ³	OSHA P0
		TWA	400 ppm 1.600 mg/m ³	OSHA P0

Personal protective equipment

Respiratory protection : Recommended Filter type:

Organic vapor with prefilter

None required for consumer use of this product.

Hand protection

Material : Chemically resistant gloves.

Remarks : None required for consumer use of this product.

Eye protection : Safety glasses

None required for consumer use of this product.

Protective measures : Wear suitable protective equipment.

Please consult label for end-user requirements.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : Light yellow to yellow

Odour : oily

pH : 4,86

Concentration: 10 g/l

Boiling point/boiling range : 230 °F / 110 °C

Flash point : 151 °F / 66 °C





Version **Revision Date:** SDS Number: Date of last issue: -

06/23/2020 122000008520 Date of first issue: 23.06.2020 1.0

0,859 g/cm³ Density

Auto-ignition temperature No data available

Decomposition temperature No data available

Explosive properties No statements available.

Oxidizing properties No data available

Impact sensitivity No data available

Minimum ignition energy No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity No data available

Chemical stability No data available

Possibility of hazardous reac- : No data available

tions

Conditions to avoid No data available

Incompatible materials Oxidizing agents

Hazardous decomposition

products

Carbon monoxide (CO) Carbon dioxide (CO2)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity Acute toxicity estimate (ATE): 962,66 mg/kg

Method: Calculation method

Acute inhalation toxicity Acute toxicity estimate (ATE): 23 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist/aerosol

Method: Calculation method

Acute toxicity estimate (ATE): > 5.000 mg/kg Acute dermal toxicity

Method: Calculation method

Components:

Permethrin:

LD50 (Rat): 430 mg/kg Acute oral toxicity





Version Revision Date: SDS Number: Date of last issue: -

1.0 06/23/2020 122000008520 Date of first issue: 23.06.2020

Acute inhalation toxicity : LC50 (Rat): 2,3 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist/aerosol

Acute dermal toxicity : LD50 (Rat): > 2.500 mg/kg

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

Method: OECD 401

Assessment: The component/mixture is minimally toxic after

single ingestion.

Acute dermal toxicity : LD50 (Rat): > 1.000 - 1.600 mg/kg

Method: OECD 402

Assessment: The component/mixture is moderately toxic after

single contact with skin.

n-Butanol:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after

single ingestion.

Skin corrosion/irritation

Components:

Permethrin:

Species : Rabbit

Result : No skin irritation

Nonionic surfactant:

Result : Causes skin irritation.

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Species : Rabbit Exposure time : 4 h

Method : OECD 404
Result : Irritating to skin.

n-Butanol:

Species : Rabbit
Method : OECD 404
Result : Irritating to skin.

Serious eye damage/eye irritation

Components:

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Result : Irritating to eyes.

Exposure time : 1 - 14 d

PERMECTRIN® II



Version Revision Date: SDS Number: Date of last issue: -

1.0 06/23/2020 122000008520 Date of first issue: 23.06.2020

n-Butanol:

Species : Rabbit

Result : Risk of serious damage to eyes.

Method : OECD 405

Respiratory or skin sensitisation

Components:

Permethrin:

Result : May cause sensitisation by skin contact.

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Species : Guinea pig Method : OECD 406

Remarks : Did not cause sensitisation on laboratory animals.

n-Butanol:

Test Type : Skin sensitisation
Species : Guinea pig
Method : OECD 406

Result : Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Components:

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD 471 Result: negative

n-Butanol:

Genotoxicity in vitro : Test Type: Ames test

Result: negative

Test Type: Micronucleus test

Result: negative

Test Type: In vitro gene mutation study in mammalian cells

Test system: Hamster V79-cells

Method: OECD 476

Result: No evidence of a genotoxic effect.

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse Method: OECD 474

Result: No evidence of a genotoxic effect.

PERMECTRIN® II



Version Revision Date: SDS Number: Date of last issue: -

1.0 06/23/2020 122000008520 Date of first issue: 23.06.2020

Solvent naphtha (petroleum), light arom.:

Germ cell mutagenicity - : In vivo tests showed mutagenic effects

Assessment

Carcinogenicity

Components:

Solvent naphtha (petroleum), light arom.:

Carcinogenicity - Assess- : Possible human carcinogen

ment

IARC No component 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 component 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

Components:

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Effects on fertility : Result: Animal testing did not show any effects on fertility.

Remarks: Data on a comparable substance

Effects on foetal develop-

ment

Species: Mouse, female Application Route: Oral

Frequency of Treatment: 1 daily

General Toxicity Maternal: NOAEL: 2 mg/kg body weight

Teratogenicity: NOAEL: 300 mg/kg body weight Result: No indication of teratogenic effects. Remarks: Data on a comparable substance

STOT - single exposure

Components:

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

n-Butanol:

Assessment : May cause respiratory irritation.

Exposure routes : Inhalation

Assessment : May cause drowsiness or dizziness.

PERMECTRIN® II



Version Revision Date: SDS Number: Date of last issue: -

1.0 06/23/2020 122000008520 Date of first issue: 23.06.2020

STOT - repeated exposure

Components:

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Species : Rat, male and female

NOAEL : 50 mg/kg
LOAEL : 250 mg/kg
Application Route : Oral
Exposure time : 3 month
Number of exposures : Once daily
Remarks : Subacute toxicity

Argument by analogy

Species : Rat, male and female

NOAEL : 85 mg/kg
LOAEL : 145 mg/kg
Application Route : Oral
Exposure time : 9 months
Number of exposures : Once daily

Remarks : Subchronic toxicity

Argument by analogy

Aspiration toxicity

Components:

n-Butanol:

May be harmful if swallowed and enters airways.

Solvent naphtha (petroleum), light arom.:

May be fatal if swallowed and enters airways.

Experience with human exposure

Components:

n-Butanol:

General Information : May cause skin irritation and/or dermatitis.

PERMECTRIN® II



Version **Revision Date:** SDS Number: Date of last issue: -

06/23/2020 122000008520 Date of first issue: 23.06.2020 1.0

Further information

Components:

Permethrin:

Pharmaceutic effects

Remarks Insecticide

Remarks Cutaneous sensations may occur, such as burning or stinging

> on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).

n-Butanol:

Remarks Liver and kidney injuries may occur.

Remarks After absorption of large quantities

> Dizziness Liver disorders drowsiness Headache Weakness

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Permethrin:

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0,00017 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50: 0,5 mg/l

Exposure time: 72 h

Nonionic surfactant:

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

LC50 (Danio rerio (zebra fish)): 10 - 100 mg/l Toxicity to fish

Exposure time: 96 h

Test Type: Acute Fish toxicity

Method: OECD 203

Remarks: Nominal concentration

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 56 - 100 mg/l

Exposure time: 48 h Method: OECD 202

Remarks: Nominal concentration





Version Revision Date: SDS Number: Date of last issue: -

1.0 06/23/2020 122000008520 Date of first issue: 23.06.2020

Toxicity to algae/aquatic

plants

NOEC (Selenastrum Capricornutum (Green algae)): 0,5 mg/l

Exposure time: 96 h

Test substance: Argument by analogy Remarks: Nominal concentration

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): 0,23 mg/l

Exposure time: 72 d Analytical monitoring: yes

Test substance: Argument by analogy

Toxicity to daphnia and other : aquatic invertebrates (Chron-

'a (a 'a')

ic toxicity)

NOEC (Daphnia magna (Water flea)): 1,18 mg/l

Exposure time: 21 d

Analytical monitoring: yes

Test substance: Data on a comparable substance

Method: OECD 211

Toxicity to microorganisms : EC50 (Photobacterium phosphoreum): 1.225 mg/l

Exposure time: 0,25 h Method: OECD 209

Toxicity to soil dwelling or-

ganisms

EC50 (Eisenia fetida (earthworms)): > 1.000 mg/kg

Exposure time: 14 d Method: OECD 207

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

n-Butanol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1.730 mg/l

Exposure time: 96 h

Test Type: Acute Fish toxicity

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1.983 mg/l

Exposure time: 48 h

Solvent naphtha (petroleum), light arom.:

Ecotoxicology Assessment

Acute aquatic toxicity : No relevant data for classication available.

Persistence and degradability

Components:

Permethrin:

Biodegradability : Result: Not rapidly biodegradable

Biodegradation: 0 % Testing period: 7 d Exposure time: 28 d

Kinetic: 7 d: 0 %

PERMECTRIN® II



Version Revision Date: SDS Number: Date of last issue: -

1.0 06/23/2020 122000008520 Date of first issue: 23.06.2020

14 d: 0 % 21 d: 0 % 28 d: 0 %

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Biodegradability : Result: Not rapidly biodegradable

Biodegradation: 2,9 % Method: OECD 301E

n-Butanol:

Biodegradability : Result: rapidly biodegradable

Biodegradation: 98 % Exposure time: 28 d Method: OECD 301E

Bioaccumulative potential

Components:

Permethrin:

Partition coefficient: n-

octanol/water

log Pow: 5,95

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Bioaccumulation : Bioconcentration factor (BCF): 3,16

Remarks: Does not bioaccumulate.

n-Butanol:

Partition coefficient: n- : log Pow: 1

octanol/water Method: OECD 117

Mobility in soilNo data available

Other adverse effects

Product:

Additional ecological infor-

mation

: Do not allow to enter surface waters or groundwater.

Components:

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Results of PBT and vPvB

assessment

This substance is not considered to be very persistent and very bioaccumulating (vPvB). This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

PERMECTRIN® II



Version Revision Date: SDS Number: Date of last issue: -

1.0 06/23/2020 122000008520 Date of first issue: 23.06.2020

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : 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)

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(PERMETHRIN)

Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : yes

IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(PERMETHRIN)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

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

Not applicable for product as supplied.

National Regulations

49 CFR

Not regulated as a dangerous good

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

PERMECTRIN® II



Version Revision Date: SDS Number: Date of last issue: -

1.0 06/23/2020 122000008520 Date of first issue: 23.06.2020

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
n-Butanol	71-36-3	100	100 (F003)
n-Butanol	71-36-3	100	100 (F003)
n-Butanol	71-36-3	5000	*
n-Butanol	71-36-3	5000	*

^{*:} Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

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 : Flammable (gases, aerosols, liquids, or solids)

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation Respiratory or skin sensitisation

Germ cell mutagenicity

Carcinogenicity

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

tablished by SARA Title III, Section 313:

Permethrin 52645-53-1 9,9999 %

n-Butanol 71-36-3 1,5 %

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

n-Butanol 71-36-3 1,5 %

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

PERMECTRIN® II



Version Revision Date: SDS Number: Date of last issue: -

1.0 06/23/2020 122000008520 Date of first issue: 23.06.2020

US State Regulations

Massachusetts Right To Know

Permethrin 52645-53-1 n-Butanol 71-36-3

Pennsylvania Right To Know

Distillates (petroleum), straight-run middle 64741-44-2 n-Butanol 71-36-3
Solvent naphtha (petroleum), light arom. 64742-95-6 1,2,4-Trimethylbenzene 95-63-6

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

New York City Hazardous Substances

Distillates (petroleum), straight-run middle 64741-44-2 n-Butanol 71-36-3
Solvent naphtha (petroleum), light arom. 64742-95-6 1,2,4-Trimethylbenzene 95-63-6

California List of Hazardous Substances

n-Butanol 71-36-3

California Permissible Exposure Limits for Chemical Contaminants

n-Butanol 71-36-3

International Regulations

Montreal Protocol (Ozone Depleting Substances) : Not applicable

Rotterdam Convention (Prior Informed Consent) : Not applicable

Stockholm Convention (Persistent Organic Pollutants) : Not applicable

The components of this product are reported in the following inventories:

TSCA : Substance(s) not listed on 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

NFPA 704:

PERMECTRIN® II



Version Revision Date: SDS Number: Date of last issue: -

1.0 06/23/2020 122000008520 Date of first issue: 23.06.2020

Health - 2 Flammability - 2 Instability - 0 Others -

HMIS® IV:

Health - 2 Flammability - 2 Instability - 0 Others -

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

1910.1000

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

its for Air Contaminants

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

NIOSH REL / C : Ceiling value not be exceeded at any time.

OSHA P0 / TWA : 8-hour time weighted average

OSHA P0 / C : Ceiling limit

OSHA Z-1 / TWA : 8-hour time weighted average

Revision Date : 06/23/2020

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.

US / EN