

# **Imidocarb Injection Formulation**

Version SDS Number: Date of last issue: 30.09.2023 **Revision Date:** 2.0 06.04.2024 632254-00018 Date of first issue: 02.05.2016

**Section 1: Identification** 

**Product identifier** Imidocarb Injection Formulation

Recommended use of the chemical and restrictions on use

Recommended use Veterinary product Restrictions on use Not applicable

Manufacturer or supplier's details

: MSD Company

50 Tuas West Drive Address

Singapore - Singapore 638408

Telephone +1-908-740-4000

Emergency telephone number : 65 6697 2111 (24/7/365)

E-mail address EHSDATASTEWARD@msd.com

#### Section 2: Hazard identification

Classification of the substance or mixture

Reproductive toxicity Category 2

Specific target organ toxicity - :

single exposure (Oral)

Category 1 (Central nervous system)

Specific target organ toxicity - : Category 1 (Liver, Kidney)

repeated exposure (Oral)

GHS Label elements, including precautionary statements

Hazard pictograms

Signal word Danger

Hazard statements H361d Suspected of damaging the unborn child.

H370 Causes damage to organs (Central nervous system) if

swallowed.

H372 Causes damage to organs (Liver, Kidney) through pro-

longed or repeated exposure if swallowed.

Precautionary statements Prevention:



# **Imidocarb Injection Formulation**

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 30.09.2023

 2.0
 06.04.2024
 632254-00018
 Date of first issue: 02.05.2016

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P260 Do not breathe mist or vapours. P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection/ hearing protection.

Response:

P308 + P311 IF exposed or concerned: Call a POISON

CENTER/ doctor.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

#### Other hazards which do not result in classification

None known.

### Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
imidocarb	27885-92-3	>= 10 -< 20
Propionic acid	79-09-4	>= 3 -< 5

#### Section 4: First-aid measures

In case of eye contact

#### Description of necessary first-aid measures

General advice : In the case of accident or if you feel unwell, seek medical ad-

vice immediately.

When symptoms persist or in all cases of doubt seek medical

advice.

If inhaled : If inhaled, remove to fresh air.

Get medical attention.

In case of skin contact : In case of contact, immediately flush skin with soap and plenty

of water.

Remove contaminated clothing and shoes.

Get medical attention. Wash clothing before reuse.

Thoroughly clean shoes before reuse. Flush eyes with water as a precaution.

Get medical attention if irritation develops and persists.

If swallowed : If swallowed, DO NOT induce vomiting.

Get medical attention.



# **Imidocarb Injection Formulation**

Version Revision Date: SDS Number: Date of last issue: 30.09.2023 2.0 06.04.2024 632254-00018 Date of first issue: 02.05.2016

Rinse mouth thoroughly with water.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Risks : Suspected of damaging the unborn child.

Causes damage to organs if swallowed.

Causes damage to organs through prolonged or repeated

exposure if swallowed.

Protection of first-aiders : First Aid responders should pay attention to self-protection,

and use the recommended personal protective equipment when the potential for exposure exists (see section 8).

Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically and supportively.

### Section 5: Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing media : Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

None known.

### Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Exposure to combustion products may be a hazard to health.

Hazardous combustion prod: :

ucts

Carbon oxides

#### Special protective actions for fire-fighters

Special protective equipment :

for firefighters

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

Use personal protective equipment.

Specific extinguishing meth-

ods

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.
Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do

SO.

Evacuate area.

#### Section 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Follow safe handling advice (see section 7) and personal pro-

tective equipment recommendations (see section 8).

**Environmental precautions** 

Environmental precautions : Avoid release to the environment.

Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g. by containment or oil



## **Imidocarb Injection Formulation**

Date of last issue: 30.09.2023 Version Revision Date: SDS Number: 2.0 06.04.2024 632254-00018 Date of first issue: 02.05.2016

barriers).

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

cannot be contained.

### Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material.

> For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor-

bent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter-

mine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding

certain local or national requirements.

## Section 7: Handling and storage

### Precautions for safe handling

Technical measures See Engineering measures under EXPOSURE

CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation

Do not breathe mist or vapours.

Use only with adequate ventilation.

Advice on safe handling

Do not swallow.

Avoid contact with eyes.

Avoid prolonged or repeated contact with skin.

Wash skin thoroughly after handling.

Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as-

sessment

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

Take care to prevent spills, waste and minimize release to the

environment.

Hygiene measures If exposure to chemical is likely during typical use, provide eye

flushing systems and safety showers close to the working

place.

When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the

use of administrative controls.

## Conditions for safe storage, including any incompatibilities

Conditions for safe storage Keep in properly labelled containers.

Store locked up.

Store in accordance with the particular national regulations.



# **Imidocarb Injection Formulation**

Date of last issue: 30.09.2023 Version Revision Date: SDS Number: 2.0 06.04.2024 632254-00018 Date of first issue: 02.05.2016

Materials to avoid Do not store with the following product types:

Strong oxidizing agents

## Section 8: Exposure controls/personal protection

#### Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
imidocarb	27885-92-3	TWA	40 μg/m3 (OEB 3)	Internal
		Wipe limit	400 μg/100 cm <sup>2</sup>	Internal
Propionic acid	79-09-4	PEL (long	10 ppm	SG OEL
		term)	30 mg/m3	
		TWA	10 ppm	ACGIH

Appropriate engineering control measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-

less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to

protect products, workers, and the environment.

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face con-

tainment devices). Minimize open handling.

### Individual protection measures, such as personal protective equipment (PPE)

Wear safety glasses with side shields or goggles. Eye/face protection

If the work environment or activity involves dusty conditions,

mists or aerosols, wear the appropriate goggles.

Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or

Work uniform or laboratory coat. Skin protection

Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis-

posable suits) to avoid exposed skin surfaces.

Use appropriate degowning techniques to remove potentially

contaminated clothing.

If adequate local exhaust ventilation is not available or expo-Respiratory protection

sure assessment demonstrates exposures outside the rec-

ommended guidelines, use respiratory protection.

Filter type

Hand protection

Combined particulates and organic vapour type

Material Chemical-resistant gloves



# **Imidocarb Injection Formulation**

Version Revision Date: SDS Number: Date of last issue: 30.09.2023 2.0 06.04.2024 632254-00018 Date of first issue: 02.05.2016

Remarks : Consider double gloving.

## Section 9: Physical and chemical properties

Appearance : liquid

Colour : clear

Odour : No data available

Odour Threshold : No data available

pH : 4.5

Melting point/freezing point : 100 °C

Initial boiling point and boiling

range

No data available

Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Flammability (liquids) : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : No data available

Relative vapour density : No data available

Density : No data available

Solubility(ies)

Water solubility : soluble

Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, kinematic : No data available

Explosive properties : Not explosive



# **Imidocarb Injection Formulation**

Version Date of last issue: 30.09.2023 **Revision Date:** SDS Number: 2.0 06.04.2024 632254-00018 Date of first issue: 02.05.2016

Oxidizing properties The substance or mixture is not classified as oxidizing.

No data available Molecular weight

Particle characteristics

Particle size No data available

### Section 10: Stability and reactivity

Reactivity Not classified as a reactivity hazard. Chemical stability Stable under normal conditions. Can react with strong oxidizing agents.

Possibility of hazardous reac-

tions

Conditions to avoid None known. Incompatible materials Oxidizing agents

Hazardous decomposition No hazardous decomposition products are known.

products

**Section 11: Toxicological information** 

Information on likely routes of : Inhalation

Skin contact exposure Ingestion

Eye contact

**Acute toxicity** 

Not classified based on available information.

**Product:** 

Acute toxicity estimate: > 2,000 mg/kg Acute oral toxicity

Method: Calculation method

**Components:** 

imidocarb:

Acute oral toxicity LD50 (Rat): 1,216 - 1,652 mg/kg

LD50 (Mouse): 544 - 702 mg/kg

LD50 (Rabbit): 317 mg/kg

Acute inhalation toxicity Remarks: No data available

Remarks: No data available Acute dermal toxicity

Acute toxicity (other routes of :

administration)

LD50 (Rat): 32.7 mg/kg

Application Route: Intravenous

LD50 (Mouse): 22.3 mg/kg



# **Imidocarb Injection Formulation**

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 30.09.2023

 2.0
 06.04.2024
 632254-00018
 Date of first issue: 02.05.2016

Application Route: Intravenous

Propionic acid:

Acute inhalation toxicity : LC50 (Rat): > 20 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rat, female): 3,235 mg/kg

Skin corrosion/irritation

Not classified based on available information.

**Components:** 

imidocarb:

Remarks : No data available

Propionic acid:

Species : Rabbit

Result : Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation

Not classified based on available information.

**Components:** 

imidocarb:

Remarks : No data available

Propionic acid:

Species : Rabbit

Result : Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

**Components:** 

imidocarb:

Remarks : No data available

Propionic acid:

Test Type : Maximisation Test Exposure routes : Skin contact



# **Imidocarb Injection Formulation**

Version Revision Date: SDS Number: Date of last issue: 30.09.2023 2.0 06.04.2024 632254-00018 Date of first issue: 02.05.2016

Species : Guinea pig Result : negative

Remarks : Based on data from similar materials

### Germ cell mutagenicity

Not classified based on available information.

#### **Components:**

#### imidocarb:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Result: negative

Test Type: Chromosome aberration test in vitro

Result: equivocal

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Rat

Application Route: Oral

Result: negative

Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse Application Route: Oral Result: negative

Propionic acid:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

Result: negative

Test Type: In vitro sister chromatid exchange assay in mam-

malian cells Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Hamster

Application Route: Intraperitoneal injection

Result: negative

### Carcinogenicity

Not classified based on available information.



# **Imidocarb Injection Formulation**

Version **Revision Date:** SDS Number: Date of last issue: 30.09.2023 2.0 06.04.2024 632254-00018 Date of first issue: 02.05.2016

#### Components:

#### imidocarb:

Species Rat Application Route Oral Exposure time 104 weeks

LOAEL 240 mg/kg body weight

Result : negative

Target Organs Mammary gland

The mechanism or mode of action may not be relevant in hu-Remarks

mans.

## Propionic acid:

Species Rat Application Route Ingestion Exposure time 2 Years Result negative

### Reproductive toxicity

Suspected of damaging the unborn child.

### **Components:**

#### imidocarb:

Effects on fertility Test Type: Two-generation reproduction toxicity study

Species: Rat

**Application Route: Oral** 

Fertility: LOAEL: 135 mg/kg body weight Result: Adverse neonatal effects.

Test Type: Two-generation reproduction toxicity study

Species: Rat

Application Route: Oral

Fertility: NOAEL: 45 mg/kg body weight

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: Oral

Developmental Toxicity: LOAEL: 76 mg/kg body weight Result: Effects on foetal development, No teratogenic effects

Test Type: Embryo-foetal development

Species: Rat

Application Route: Oral

Developmental Toxicity: NOAEL: 19 mg/kg body weight

Test Type: Embryo-foetal development

Species: Rabbit Application Route: Oral

Developmental Toxicity: NOAEL: 20 mg/kg body weight

Result: No effects on foetal development



# **Imidocarb Injection Formulation**

Date of last issue: 30.09.2023 Version **Revision Date:** SDS Number: 2.0 06.04.2024 632254-00018 Date of first issue: 02.05.2016

Reproductive toxicity - As-

sessment

: Some evidence of adverse effects on development, based on

animal experiments.

Propionic acid:

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: Ingestion

Result: negative

Remarks: Based on data from similar materials

STOT - single exposure

Causes damage to organs (Central nervous system) if swallowed.

**Components:** 

imidocarb:

Target Organs Central nervous system Assessment Causes damage to organs.

Propionic acid:

Assessment May cause respiratory irritation.

STOT - repeated exposure

Causes damage to organs (Liver, Kidney) through prolonged or repeated exposure if swallowed.

**Components:** 

imidocarb:

Target Organs : Liver, Kidney

Assessment : Causes damage to organs through prolonged or repeated

exposure.

Propionic acid:

No significant health effects observed in animals at concentra-Assessment

tions of 200 mg/kg bw or less.

Repeated dose toxicity

**Components:** 

imidocarb:

Species Rat LOAEL 125 mg/kg Application Route Oral Exposure time 90 Days Target Organs Liver

Species

Rat



# **Imidocarb Injection Formulation**

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 30.09.2023

 2.0
 06.04.2024
 632254-00018
 Date of first issue: 02.05.2016

NOAEL : 76 mg/kg
LOAEL : 415 mg/kg
Application Route : Oral
Exposure time : 90 Days
Target Organs : Liver

Species : Dog
LOAEL : 5 mg/kg
Application Route : Oral
Exposure time : 90 Days
Target Organs : Liver, Kidney

Symptoms : muscle twitching, Salivation, recumbency, ataxia, splayed legs

Species: RatNOAEL: 15 mg/kgLOAEL: 60 mg/kgApplication Route: Oral

Exposure time : 104 Weeks

Target Organs : Liver, Kidney, Blood

Species: MonkeyNOAEL: 5 mg/kgApplication Route: OralExposure time: 30 Days

Remarks : No significant adverse effects were reported

Propionic acid:

Species : Dog

NOAEL : 733.4 mg/kg
Application Route : Ingestion
Exposure time : 90 Days

Method : OECD Test Guideline 409

Species: Mouse, femaleLOAEL: 136.9 mg/kgApplication Route: Skin contactExposure time: 90 Days

**Aspiration toxicity** 

Not classified based on available information.

Experience with human exposure

**Components:** 

imidocarb:

Inhalation : Target Organs: Central nervous system

Symptoms: Salivation, muscle twitching, Tremors, Lachry-

mation, ataxia, lethargy

Remarks: Based on Animal Evidence



# **Imidocarb Injection Formulation**

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 30.09.2023

 2.0
 06.04.2024
 632254-00018
 Date of first issue: 02.05.2016

#### **Section 12: Ecological information**

## **Toxicity**

plants

#### **Components:**

Propionic acid:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l

Exposure time: 96 h Method: DIN 38412

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

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

Exposure time: 48 h

Method: Directive 67/548/EEC, Annex V, C.2. Remarks: Based on data from similar materials

Toxicity to algae/aquatic

EbC50 (Desmodesmus subspicatus (green algae)): > 100

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

Toxicity to microorganisms : EC10 (Pseudomonas putida): 44.6 mg/l

Exposure time: 17 h Method: DIN 38 412 Part 8

#### Persistence and degradability

#### **Components:**

Propionic acid:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 74 % Exposure time: 30 d

### **Bioaccumulative potential**

#### **Components:**

imidocarb:

Partition coefficient: n-

: log Pow: 3.88

octanol/water

Propionic acid:

Partition coefficient: n-

log Pow: 0.33

octanol/water

Mobility in soil
No data available



## **Imidocarb Injection Formulation**

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 30.09.2023

 2.0
 06.04.2024
 632254-00018
 Date of first issue: 02.05.2016

#### Other adverse effects

No data available

#### Section 13: Disposal considerations

## **Disposal methods**

Waste from residues : Do not dispose of waste into sewer.

Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

If not otherwise specified: Dispose of as unused product.

#### **Section 14: Transport information**

### International Regulations

#### **UNRTDG**

UN number : Not applicable
UN proper shipping name : Not applicable
Transport hazard class(es) : Not applicable
Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable

Environmentally hazardous : no

#### IATA-DGR

UN/ID No. : Not applicable
UN proper shipping name : Not applicable
Class : Not applicable
Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable
Packing instruction (cargo : Not applicable

aircraft)

Packing instruction (passen- : Not applicable

ger aircraft)

#### **IMDG-Code**

**UN** number Not applicable UN proper shipping name Not applicable Not applicable Class Subsidiary risk Not applicable Packing group Not applicable Not applicable Labels **EmS Code** Not applicable Marine pollutant Not applicable

## Transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### Special precautions for user

Not applicable



# **Imidocarb Injection Formulation**

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 30.09.2023

 2.0
 06.04.2024
 632254-00018
 Date of first issue: 02.05.2016

#### **Section 15: Regulatory information**

### Safety, health and environmental regulations specific for the product in question

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and

Environmental Protection and Management (Hazard-

ous Substances) Regulations

Fire Safety (Petroleum and Flammable Materials)

Regulations

Not applicable

Not applicable

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

AICS : not determined

DSL : not determined

IECSC : not determined

#### Section 16: Other information

Revision Date : 06.04.2024

**Further information** 

Sources of key data used to compile the Safety Data

Sheet

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-

cy, http://echa.europa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format : dd.mm.yyyy

Full text of other abbreviations

ACGIH : USA, ACGIH Threshold Limit Values (TLV)

SG OEL : Singapore. Workplace Safety and Health (General Provisions)

Regulations - First Schedule Permissible Exposure Limits of

Toxic Substances.

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

SG OEL / PEL (long term) : Permissible Exposure Level (PEL) Long Term

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with



# **Imidocarb Injection Formulation**

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 30.09.2023

 2.0
 06.04.2024
 632254-00018
 Date of first issue: 02.05.2016

x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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 Organisation 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

SG / EN