

## Imidocarb Injection Formulation

|         |                |                |                                 |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number:    | Date of last issue: 04.04.2023  |
| 1.5     | 30.09.2023     | 10098190-00006 | Date of first issue: 28.10.2021 |

## SECTION 1. IDENTIFICATION

Product name : Imidocarb Injection Formulation

**Manufacturer or supplier's details**

Company : MSD

Address : Calle 127A #53A-45 Torre 3 – Piso 8  
Bogotá D.C., Colombia Complejo Empresarial Colpatría

Telephone : (+57) 1 2886012

Emergency telephone : 01 8000 916012

E-mail address : EHSDATASTEWARD@msd.com

**Recommended use of the chemical and restrictions on use**

Recommended use : Veterinary product

Restrictions on use : Not applicable

## SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification**

Reproductive toxicity : Category 2

Specific target organ toxicity - single exposure (Oral) : Category 1 (Central nervous system)

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

**GHS label elements**

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 prolonged or repeated exposure if swallowed.

Precautionary Statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read

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and understood.  
P260 Do not breathe mist or vapors.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face 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**

|   |   |
|---|---|
| General advice  | : In the case of accident or if you feel unwell, seek medical advice immediately.<br>When symptoms persist or in all cases of doubt seek medical advice.  |
| If inhaled  | : If inhaled, remove to fresh air.<br>Get medical attention.  |
| In case of skin contact                                     | : In case of contact, immediately flush skin with soap and plenty of water.<br>Remove contaminated clothing and shoes.<br>Get medical attention.<br>Wash clothing before reuse.<br>Thoroughly clean shoes before reuse. |
| In case of eye contact                                      | : Flush eyes with water as a precaution.<br>Get medical attention if irritation develops and persists.  |
| If swallowed  | : If swallowed, DO NOT induce vomiting.<br>Get medical attention.<br>Rinse mouth thoroughly with water.<br>Never give anything by mouth to an unconscious person.   |
| Most important symptoms and effects, both acute and delayed | : Suspected of damaging the unborn child.<br>Causes damage to organs if swallowed.<br>Causes damage to organs through prolonged or repeated   |

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Protection of first-aiders : exposure if swallowed.  
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).

Notes to physician : Treat symptomatically and supportively.

**SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : None known.

Specific hazards during fire fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances 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.

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

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 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 : Soak up with inert absorbent material.  
For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.  
Clean up remaining materials from spill with suitable absorbent.  
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 determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

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## SECTION 7. HANDLING AND STORAGE

- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Local/Total ventilation : Use only with adequate ventilation.
- Advice on safe handling : Do not breathe mist or vapors.  
 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 assessment  
 Do not eat, drink or smoke when using this product.  
 Take care to prevent spills, waste and minimize release to the environment.
- Conditions for safe storage : Keep in properly labeled containers.  
 Store locked up.  
 Store in accordance with the particular national regulations.
- Materials to avoid : Do not store with the following product types:  
 Strong oxidizing agents  
 Self-reactive substances and mixtures  
 Organic peroxides  
 Explosives  
 Gases

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

| Components     | CAS-No.    | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis    |
|----------------|------------|----------------------------------|--|----------|
| Imidocarb      | 27885-92-3 | TWA                              | 40 µg/m <sup>3</sup> (OEB 3)                   | Internal |
|                |            | Wipe limit                       | 400 µg/100 cm <sup>2</sup>                     | Internal |
| Propionic acid | 79-09-4    | TWA                              | 10 ppm   | ACGIH    |

- Engineering 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 containment devices).  
 Minimize open handling.

**Personal protective equipment**

- Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the

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|--------------------------|--|
| Filter type              | : recommended guidelines, use respiratory protection.  |
| Hand protection          | : Combined particulates and organic vapor type   |
| Material                 | : Chemical-resistant gloves  |
| Remarks                  | : Consider double gloving.   |
| Eye protection           | : Wear safety glasses with side shields or goggles.<br>If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.<br>Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.   |
| Skin and body protection | : Work uniform or laboratory coat.<br>Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.<br>Use appropriate degowning techniques to remove potentially contaminated clothing.  |
| Hygiene measures         | : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.<br>When using do not eat, drink or smoke.<br>Wash contaminated clothing before re-use.<br>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. |

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|   |                     |
|---|---------------------|
| Appearance                              | : liquid            |
| Color                                   | : clear             |
| Odor                                    | : No data available |
| Odor 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 |

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|  |   |  |
|--|---|--|
| Upper explosion limit / Upper flammability limit | : | No data available  |
| Lower explosion limit / Lower flammability limit | : | No data available  |
| Vapor pressure                                   | : | No data available  |
| Relative vapor density                           | : | No data available  |
| Density  | : | No data available  |
| Solubility(ies)                                  | : |  |
| Water solubility                                 | : | soluble  |
| Partition coefficient: n-octanol/water           | : | No data available  |
| Autoignition temperature                         | : | No data available  |
| Decomposition temperature                        | : | No data available  |
| Viscosity  | : |  |
| Viscosity, kinematic                             | : | No data available  |
| Explosive properties                             | : | Not explosive  |
| Oxidizing properties                             | : | The substance or mixture is not classified as oxidizing. |
| Molecular weight                                 | : | No data available  |
| Particle size                                    | : | No data available  |

**SECTION 10. STABILITY AND REACTIVITY**

|                                    |   |  |
|------------------------------------|---|--|
| Reactivity                         | : | Not classified as a reactivity hazard.         |
| Chemical stability                 | : | Stable under normal conditions.                |
| Possibility of hazardous reactions | : | Can react with strong oxidizing agents.        |
| Conditions to avoid                | : | None known.                                    |
| Incompatible materials             | : | Oxidizing agents                               |
| Hazardous decomposition products   | : | No hazardous decomposition products are known. |

**SECTION 11. TOXICOLOGICAL INFORMATION**

|  |   |  |
|--|---|--|
| Information on likely routes of exposure | : | Inhalation<br>Skin contact<br>Ingestion<br>Eye contact |
|--|---|--|

**Acute toxicity**

Not classified based on available information.

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**Product:**

|                       |   |  |
|-----------------------|---|--|
| Acute oral toxicity   | : | Acute toxicity estimate: > 5.000 mg/kg<br>Method: Calculation method |
| Acute dermal toxicity | : | Acute toxicity estimate: > 5.000 mg/kg<br>Method: Calculation method |

**Components:****Imidocarb:**

|   |   |  |
|---|---|--|
| Acute oral toxicity                             | : | LD50 (Rat): 1.216 - 1.652 mg/kg<br>LD50 (Mouse): 544 - 702 mg/kg<br>LD50 (Rabbit): 317 mg/kg                           |
| Acute inhalation toxicity                       | : | Remarks: No data available   |
| Acute dermal toxicity                           | : | Remarks: No data available   |
| Acute toxicity (other routes of administration) | : | LD50 (Rat): 32,7 mg/kg<br>Application Route: Intravenous<br>LD50 (Mouse): 22,3 mg/kg<br>Application Route: Intravenous |

**Propionic acid:**

|                           |   |   |
|---------------------------|---|---|
| Acute inhalation toxicity | : | LC50 (Rat): > 20 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapor |
| 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 |
|---------|---|-------------------|

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**Propionic acid:**

|         |   |                                 |
|---------|---|---------------------------------|
| Species | : | Rabbit                          |
| Result  | : | Irreversible effects on the eye |

**Respiratory or skin sensitization****Skin sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Components:****Imidocarb:**

|         |   |                   |
|---------|---|-------------------|
| Remarks | : | No data available |
|---------|---|-------------------|

**Propionic acid:**

|                    |   |                                      |
|--------------------|---|--------------------------------------|
| Test Type          | : | Maximization Test                    |
| Routes of exposure | : | Skin contact                         |
| 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)<br>Result: negative |
|-----------------------|---|--|

|  |   |   |
|--|---|---|
|  | : | Test Type: In vitro mammalian cell gene mutation test<br>Result: negative |
|--|---|---|

|  |   |   |
|--|---|---|
|  | : | Test Type: Chromosome aberration test in vitro<br>Result: equivocal |
|--|---|---|

|                      |   |   |
|----------------------|---|---|
| Genotoxicity in vivo | : | Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)<br>Species: Rat<br>Application Route: Oral<br>Result: negative |
|----------------------|---|---|

|  |   |   |
|--|---|---|
|  | : | Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)<br>Species: Mouse<br>Application Route: Oral<br>Result: negative |
|--|---|---|

**Propionic acid:**



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- 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 mammalian 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.

**Components:****Imidocarb:**

- Species : Rat  
Application Route : Oral  
Exposure time : 104 weeks  
LOAEL : 240 mg/kg body weight  
Result : negative  
Target Organs : Mammary gland  
Remarks : The mechanism or mode of action may not be relevant in humans.

**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 fetal development : Test Type: Embryo-fetal development  
Species: Rat

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Application Route: Oral  
Developmental Toxicity: LOAEL: 76 mg/kg body weight  
Result: Effects on fetal development., No teratogenic effects.

Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Oral  
Developmental Toxicity: NOAEL: 19 mg/kg body weight

Test Type: Embryo-fetal development  
Species: Rabbit  
Application Route: Oral  
Developmental Toxicity: NOAEL: 20 mg/kg body weight  
Result: No effects on fetal development.

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

**Propionic acid:**

Effects on fetal development : Test Type: Embryo-fetal 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:**

Assessment : No significant health effects observed in animals at concentrations of 200 mg/kg bw or less.

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**Repeated dose toxicity****Components:****Imidocarb:**

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

|                   |             |
|-------------------|-------------|
| Species           | : Rat       |
| 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           | : Rat                  |
| NOAEL             | : 15 mg/kg             |
| LOAEL             | : 60 mg/kg             |
| Application Route | : Oral                 |
| Exposure time     | : 104 Weeks            |
| Target Organs     | : Liver, Kidney, Blood |

|                   |  |
|-------------------|--|
| Species           | : Monkey                                       |
| NOAEL             | : 5 mg/kg                                      |
| Application Route | : Oral   |
| Exposure 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, female |
| LOAEL             | : 136,9 mg/kg   |
| Application Route | : Skin contact  |
| Exposure time     | : 90 Days       |

**Aspiration toxicity**

Not classified based on available information.

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**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

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****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 : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
aquatic invertebrates : 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  
plants : 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:**

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Partition coefficient: n-octanol/water : log Pow: 0,33

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

|                        |   |
|------------------------|---|
| Waste from residues    | : Do not dispose of waste into sewer.<br>Dispose of in accordance with local regulations.   |
| Contaminated packaging | : Empty containers should be taken to an approved waste handling site for recycling or disposal.<br>If not otherwise specified: Dispose of as unused product. |

**SECTION 14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to IMO instruments**

Not applicable for product as supplied.

**Special precautions for user**

Not applicable

**SECTION 15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture**

Substances and chemicals controlled by the Ministry of Justice : Not applicable

List of substances included for special control and subject to supervision by the Ministry of Health and Social Protection : Not applicable

Resolution 2715/2014, which establishes the substances subject to registration of retail sales, based on defined classification criteria. : Not applicable

**The ingredients of this product are reported in the following inventories:**

AICS : not determined

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DSL : not determined

IECSC : not determined

## SECTION 16. OTHER INFORMATION

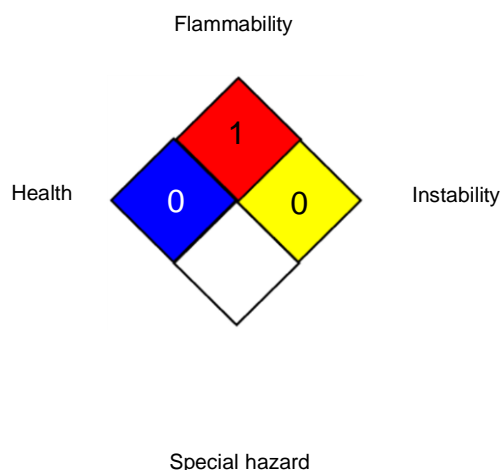
Revision Date : 30.09.2023

Date format : dd.mm.yyyy

## Further information

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

## NFPA:



## HMIS® IV:

|                 |   |   |
|-----------------|---|---|
| HEALTH          | * | 4 |
| FLAMMABILITY    |   | 1 |
| PHYSICAL HAZARD |   | 0 |

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)

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

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 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 Or-

## Imidocarb Injection Formulation

|         |                |                |                                 |
|---------|----------------|----------------|---------------------------------|
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ganisation 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; TECL - 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.

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