

# SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revision number: 1 Revision date: 10/03/2018

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: Warfarin Sodium (contains Isopropyl Alcohol)

Product code: W0005

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Reagents.

1.3 Details of the supplier of the safety data sheet

Supplier:

TCI EUROPE N.V. Boerenveldseweg 6 Haven 1063 B-2070 Zwijndrecht

Telephone: +32(0)3 735 07 00 E-mail: sales-eu@tcichemicals.com

**1.4 Emergency telephone number:** +32(0)70 245 245

### SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Acute toxicity (Oral) Category 2
Reproductive toxicity Category 1A

Specific target organ toxicity - Single exposure [Category 1] Blood system, Kidney, Central nervous system

Specific target organ toxicity - Repeated exposure [Category 1] Blood system, Bone, Skin

Specific target organ toxicity - Repeated exposure [Category 2] Liver, Kidney, Spleen, Blood vessels

Long-term aquatic hazard Category 3

### 2.2 Label elements

Pictograms or hazard symbols



Signal word Danger

Hazard statements H300-Fatal if swallowed.

H360FD-May damage fertility. May damage the unborn child.

H370-Causes damage to organs : Blood system Kidney Central nervous system

H372-Causes damage to organs through prolonged or repeated exposure : Blood system Bone Skin H373-May cause damage to organs through prolonged or repeated exposure : Liver Kidney Spleen

Blood vessels

H412-Harmful to aquatic life with long lasting effects.

**Precautionary statements** P201-Obtain special instructions before use.

P260-Do not breathe dust/fume/gas/mist/vapours/spray. P270-Do not eat, drink or smoke when using this product. P280-Wear protective gloves, protective clothing, face protection.

P301+P310+P330-IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth.

P308+P311-If exposed or concerned: Call a POISON CENTER or doctor.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

Warfarin Sodium (contains Isopropyl Alcohol)

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# SECTION 3: Composition/information on ingredients

3.1 Substances

Components: Warfarin Sodium (contains Isopropyl Alcohol)

 Percent:
 >98.0%(HPLC)

 CAS RN:
 129-06-6

 EC-No:
 204-929-4

Synonyms: 3-(α-Acetonylbenzyl)-4-hydroxycoumarin Sodiuim Salt (contains Isopropyl Alcohol) , 4-Hydroxy-3-(3-oxo-1-phenylbutyl)coumarin Sodium Salt (contains Isopropyl Alcohol)

Chemical Formula: C19H15NaO4

# SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.

Call a POISON CENTER or doctor/physician.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Call a POISON CENTER or doctor/physician.

Ingestion: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

#### 4.2 Most important symptoms and effects, both acute and delayed

No data available

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

### SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.

5.2 Special hazards arising from the

substance or mixture

Carbon dioxide, Carbon monoxide

5.3 Advice for firefighters

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sure to wear personal protective equipment

# SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc

6.2 Environmental precautions

Prevent product from entering drains

6.3 Methods and materials for containment and cleaning up

Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

6.4 Reference to other sections

For disposal see section 13.

### SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated. Avoid all contact!

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool and dark place. Store under inert gas. Store locked up. Store away from incompatible materials such as oxidizing agents.

Air-sensitive

7.3 Specific end use(s)

No further relevant information available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters No data available

(IPA)

ACGIH TLV(TWA):200 ppm ACGIH TLV(STEL):400 ppm OSHA PEL(TWA):400 ppm

8.2 Exposure controls Install a closed system or local exhaust. Also install safety shower and eye bath.

**Respiratory protection:** Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc.

Use respirators approved under appropriate government standards and follow local and national

regulations.

Hand protection: Impervious gloves.

**Eye protection:** Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

# SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state (20°C): Solid

Form: Crystal - Powder
Colour: White - Very pale yellow
Odour: No data available
pH: No data available
Melting point/freezing point: No data available

No data available (IPA) -90°C

Boiling point/range: No data available

(IPA) 82°C

Flash point: No data available

(IPA) 15°C

Evaporation rate(Butyl Acetate=1): No data available Flammability(solid, gas): No data available

Flammability or explosive limits:

Lower: No data available
Upper: No data available
Vapour pressure: 0.1kPa/106°C
Vapour density: No data available
Relative density: No data available

Solubility(ies):

[Water] Very soluble

[Other solvents]

Very soluble: Alcohols

Slightly soluble: Ether, Chloroform

Partition coefficient: No data available (IPA) 0.05

n-octanol/water:

Autoignition temperature:No data availableDecomposition temperature:No data availableDynamic Viscosity:No data availableKinematic viscosity:No data available

9.2 Other safety information No data available

# SECTION 10: Stability and reactivity

**10.1 Reactivity** No data available

**10.2 Chemical stability** Stable under proper conditions.

10.3 Possibility of hazardous reactions No special reactivity has been reported.

10.4 Conditions to avoid No data available10.5 Incompatible materials Oxidizing agents

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide

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# SECTION 11: Toxicological information

# 11.1 Information on toxicological effects

Acute Toxicity: ivn-rat LD50:25 mg/kg

orl-rat LD50:8700 ug/kg

(IPA)

orl-nmn LDLo:3570 mg/kg orl-rat LD50:5000 mg/kg skn-rbt LD50:12800 mg/kg ihl-rat LC50:72600 mg/m<sup>3</sup>

Skin corrosion/irritation: No data available

(IPA)

skn-rbt 500 mg MLD

Serious eye damage/irritation:

No data available

(IPA)

Respiratory or skin sensitization:
Germ cell mutagenicity:

eye-rbt 100 mg/24H MOD
No data available
dni-mus-leu 100 nmol/L

oms-mus-leu 100 nmol/L

(IPA)

cyt-rat-ihl 1030 ug/m<sup>3</sup>/16W-I

Carcinogenicity:

IARC = No data available
NTP = No data available

(IPA) IARC = 3

**Reproductive toxicity:** ipr-mus TDLo:1 mg/kg (10D preg)

orl-wmn TDLo:26 mg/kg (1-38W preg) par-rat TDLo:2450 mg/kg (7-21D preg)

STOT-single exposure: No data available
STOT-repeated exposure: No data available
Aspiration hazard: No data available
RTECS Number: GN4725000

#### SECTION 12: Ecological information

### 12.1 Toxicity

Fish: No data available
Crustacea: No data available
Algae: No data available

12.2 Persistence and degradability No data available

**12.3 Bioaccumulative potential** No data available

12.4 Mobility in soil

Log Pow: No data available
Soil adsorption (Koc): No data available
Henry's Law (PaM ³/mol): No data available

12.5 Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

12.6 Other adverse effects No data available

# SECTION 13: Disposal considerations

# 13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

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# SECTION 14: Transport information

**14.1 UN number** 1544

14.2 UN proper shipping name

ADR/RID Alkaloid salts, solid, n.o.s
IMDG/IMO Alkaloid salts, solid, n.o.s
ICAO/IATA Alkaloid salts, solid, n.o.s

14.3 Transport hazard class(es)

ADR/RID 6.1: Toxic substance
IMDG/IMO 6.1: Toxic substance
ICAO/IATA 6.1: Toxic substance

14.4 Packaging group

ADR/RID II
IMDG/IMO II
ICAO/IATA II

14.5 Environmental hazards

Marine pollutant

14.6 Special precautions for user No data available

# SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Substance of Very High Concern (SVHC) according to the Not listed

REACH Regulations (EC) No.1907/2006

#### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

Prepared by: TCI EUROPE N.V. Issue date: 10/03/2018

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

**End of Safety Data Sheet**