# **SAFETY DATA SHEETS**

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Sixth revised edition

Version: 1.0

Creation Date: Aug 10, 2017

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### 1.Identification

#### 1.1GHS Product identifier

Product name
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#### 1.20ther means of identification

Product number	_
Other names	2-fluoro-3-iodo-pyridine

#### 1.3Recommended use of the chemical and restrictions on use

Identified uses	For industry use only.

Uses advised against

no data available

# 2.Hazard identification

#### 2.1 Classification of the substance or mixture

Acute toxicity - Oral, Category 4

Skin irritation, Category 2

Serious eye damage, Category 1

# 2.2GHS label elements, including precautionary statements

Pictogram(s)	
Signal word	Danger
Hazard statement(s)	H302 Harmful if swallowed H315 Causes skin irritation H318 Causes serious eye damage

Precautionary statement(s)	
Prevention	P264 Wash 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	P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/if you feel unwell. P330 Rinse mouth. P302+P352 IF ON SKIN: Wash with plenty of water/ P321 Specific treatment (see on this label). P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor/

Storage	none
Disposal	P501 Dispose of contents/container to

### 2.30ther hazards which do not result in classification

none

# 3. Composition/information on ingredients

### 3.1Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
2-Fluoro-3-iodopyridine	2-Fluoro-3-iodopyridine	113975-22-7	none	100%

## 4.First-aid measures

# 4.1Description of necessary first-aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2Most important symptoms/effects, acute and delayed
no data available
4.3Indication of immediate medical attention and special treatment needed, if necessary
4.5 mulcation of infinediate incural attention and special freatment needed, if necessary
no data available
no data available
no data available  5.Fire-fighting measures
no data available  5.Fire-fighting measures  5.1Extinguishing media
no data available  5.Fire-fighting measures  5.1Extinguishing media  Suitable extinguishing media
5. Fire-fighting measures 5. 1 Extinguishing media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5. Fire-fighting measures 5.1 Extinguishing media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. 5.2 Specific hazards arising from the chemical

Wear self-contained breathing apparatus for firefighting if necessary.

#### 6.Accidental release measures

#### 6.1Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

#### **6.2**Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 6.3Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### 7. Handling and storage

### 7.1Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

# 8.Exposure controls/personal protection

### 8.1 Control parameters

### Occupational Exposure limit values

no data available

**Biological limit values** 

no data available

#### 8.2Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 8.3Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### **Respiratory protection**

Wear dust mask when handling large quantities.

#### Thermal hazards

no data available

# 9. Physical and chemical properties

Physical state	Salmon-coloured solid
Colour	no data available
0dour	no data available
Melting point/ freezing point	136° C(lit.)
Boiling point or initial boiling point and boiling range	99° C/17mmHg(lit.)
Flammability	no data available
Lower and upper explosion limit / flammability limit	no data available
Flash point	67° C(lit.)

Auto-ignition temperature	no data available
Decomposition temperature	no data available
рН	no data available
Kinematic viscosity	no data available
Solubility	no data available
Partition coefficient n-octanol/water (log value)	no data available
Vapour pressure	O.1mmHg at 25° C
Density and/or relative density	2.046 g/cm3

Relative vapour density	no data available
Particle characteristics	no data available

# 10.Stability and reactivity

## 10.1Reactivity

no data available

# 10.2Chemical stability

Stable under recommended storage conditions.

# 10.3Possibility of hazardous reactions

no data available

### 10.4Conditions to avoid

no data available

## 10.5Incompatible materials

no data available

# 10.6Hazardous decomposition products

no data available

# 11.Toxicological information Acute toxicity • Oral: no data available Inhalation: no data available Dermal: no data available Skin corrosion/irritation no data available Serious eye damage/irritation no data available Respiratory or skin sensitization no data available Germ cell mutagenicity no data available Carcinogenicity no data available Reproductive toxicity no data available

STOT-single exposure

no data available

STOT-repeated exposure
no data available
Aspiration hazard
no data available
12.Ecological information
12.1Toxicity
Toxicity to fish: no data available
Toxicity to daphnia and other aquatic invertebrates: no data available
Toxicity to algae: no data available
Toxicity to microorganisms: no data available
12.2Persistence and degradability
no data available
12.3Bioaccumulative potential
no data available
12.4Mobility in soil
no data available
12.5Other adverse effects
no data available
13.Disposal considerations

#### 13.1Disposal methods

#### **Product**

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### **Contaminated packaging**

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

## 14.Transport information

#### 14.1UN Number

ADR/RID: UN3439 IMDG: UN3439 IATA: UN3439

### 14.2UN Proper Shipping Name

ADR/RID: NITRILES, SOLID, TOXIC, N.O.S.

IMDG: NITRILES, SOLID, TOXIC, N.O.S.

IATA: NITRILES, SOLID, TOXIC, N.O.S.

# 14.3Transport hazard class(es)

ADR/RID: 6.1	IMDG: 6.1	IATA: 6.1			
14.4Packing group, if applicable					
ADR/RID: III	IMDG: III	IATA: III			
14.5Environmental hazards					
ADR/RID: no	IMDG: no	IATA: no			
14.6Special precautions for user  no data available  14.7Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  no data available					
15.Regulatory information  15.1Safety, health and environmental regulations specific for the product in question					
Chemical name	Common names and synonyms	CAS number	EC number		

2-Fluoro-3-iodopyridine	2-Fluoro-3-iodopyridine	113975-22-7	none
European Inventory of Existing Commercial Chemical Substances (EINECS)			Not Listed.
		EC Inventory	Not Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Not Listed.
China Catalog of Hazardous chemicals 2015			Not Listed.
	Not Listed.		
Philippines Inventory of	Not Listed.		

Vietnam National Chemical Inventory	Not Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)	Not Listed.

### 16.Other information

#### **Information on revision**

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#### Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%

- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

#### References

- IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
- eChemPortal The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en
- CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- ECHA European Chemicals Agency, website: https://echa.europa.eu/

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