# **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

Revision Date: Aug 10, 2017

# 1.Identification

# **1.1GHS Product identifier**

Product name	Iron(III) Acetylacetonate
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# 1.20ther means of identification

Product number	_
Other names	Tris(2,4-pentanedionato)iron(III)

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

Identified uses	For industry use only.
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Uses advised against no data available

# 2.Hazard identification

### 2.1Classification of the substance or mixture

Acute toxicity - Oral, Category 4

Eye irritation, Category 2

# 2.2GHS label elements, including precautionary statements

Pictogram(s)	
Signal word	Warning
Hazard statement(s)	H3O2 Harmful if swallowed H319 Causes serious eye irritation
Precautionary	

<pre>statement(s)</pre>	
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	<ul> <li>P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/…if you feel unwell.</li> <li>P330 Rinse mouth.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337+P313 If eye irritation persists: Get medical advice/attention.</li> </ul>
Storage	none
Disposal	P501 Dispose of contents/container to

2.3Other 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
Iron(III) Acetylacetonate	Iron(III) Acetylacetonate	14024-18-1	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

no data available

**5.**Fire-fighting measures

**5.1Extinguishing media** 

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2Specific hazards arising from the chemical** 

no data available

**5.3Special protective actions for fire-fighters** 

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.

### **6.2Environmental 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.

### 7.2Conditions 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

**8.1Control parameters** 

**Occupational Exposure limit values** 

no data available

**Biological limit values** 

no data available

### **8.2**Appropriate 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	dark red powder
Colour	no data available

Odour	no data available
Melting point/ freezing point	219° C(dec.)(lit.)
Boiling point or initial boiling point and boiling range	56°C/12mmHg
Flammability	no data available
Lower and upper explosion limit / flammability limit	no data available
Flash point	68° 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	0.174mmHg at 25° C
Density and/or relative density	5.24g/mLat 25° C(lit.)
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

12.50ther 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: Not dangerous IMDG: Not dangerous goods. IATA: Not dangerous goods.

# 14.2UN Proper Shipping Name

ADR/RID: unknown	
IMDG: unknown	
IATA: unknown	

# 14.3Transport hazard class(es)

ADR/RID: Not dangerous	IMDG: Not dangerous goods.	IATA: Not dangerous goods.

goods.		
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# 14.4Packing group, if applicable

ADR/RID: Not dangerous goods.	IMDG: Not dangerous goods.	IATA: Not dangerous goods.
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14.5Environmental hazards

ADR/RID: no	IMDG: no	IATA: no
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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
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Iron(III) Acetylacetonate	Iron(III) Acetylacetonate	14024-18-1	none
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed.
EC Inventory			Listed.
United States Toxic Substances Control Act (TSCA) Inventory		Listed.	
China Catalog of Hazardous chemicals 2015		Not Listed.	
New Zealand Inventory of Chemicals (NZIoC)			Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Listed.
Vietnam National Chemical Inventory			Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Listed.

16.Other information		
Information on revision		
Creation Date	Aug 10, 2017	
Revision Date	Aug 10, 2017	

### 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/

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product.