

# SAFETY DATA SHEET

# Iron(0) pentacarbonyl

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

SECTION 1: Identification of the substance/mixture and of	of the company/undertaking
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1.1. Product identifier		
Product name	Iron(0) pentacarbonyl	
Product number	90026671	
CAS number	13463-40-6	
EC number	236-670-8	
1.2. Relevant identified uses of the substance or mixture and uses advised against		
Identified uses	For research purposes only.	
Uses advised against	No specific uses advised against are identified.	
1.3. Details of the supplier of the safety data sheet		
Supplier	Molekula Ltd. Lingfield Way, Darlington, DL1 4XX, United Kingdom +44 (0) 3302000333 info@molekula.com	
1.4. Emergency telephone number SECTION 2: Hazards identification		

2.1. Classification of the substance or mixture	
Classification (SI 2019 No. 720)	
Physical hazards	Flam. Liq. 2 - H225
Health hazards	Acute Tox. 2 - H300 Acute Tox. 3 - H311 Acute Tox. 1 - H330
Environmental hazards	Not Classified
2.2. Label elements	
EC number	236-670-8
Hazard pictograms	
Signal word	Danger
Hazard statements	H225 Highly flammable liquid and vapour. H311 Toxic in contact with skin.

H300+H330 Fatal if swallowed or if inhaled.

Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P240 Ground and bond container and receiving equipment.
	P241 Use explosion-proof electrical equipment.
	P242 Use non-sparking tools.
	P243 Take action to prevent static discharges.
	P260 Do not breathe vapour/ spray.
	P264 Wash contaminated skin thoroughly after handling.
	P271 Use only outdoors or in a well-ventilated area.
	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
	P284 [In case of inadequate ventilation] wear respiratory protection.
	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
	P302+P352 IF ON SKIN: Wash with plenty of water.
	P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
	Rinse skin with water or shower.
	P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P312 Call a POISON CENTRE/doctor if you feel unwell.
	P320 Specific treatment is urgent (see medical advice on this label).
	P330 Rinse mouth.
	P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
	P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
	P403+P233 Store in a well-ventilated place. Keep container tightly closed.
	P403+P235 Store in a well-ventilated place. Keep cool.
	P405 Store locked up.
	P501 Dispose of contents/ container in accordance with national regulations.

# 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current UK criteria.

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Product name	Iron(0) pentacarbonyl	
CAS number	13463-40-6	
EC number	236-670-8	
Chemical formula	Fe(CO)5	

# SECTION 4: First aid measures

# 4.1. Description of first aid measures

General information	Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention. Place unconscious person on their side in the recovery position and ensure breathing can take place.
Ingestion	Get medical attention immediately. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Keep affected person under observation.

Skin contact	It is important to remove the substance from the skin immediately. Remove contamination with soap and water or recognised skin cleansing agent. Get medical attention.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.
Protection of first aiders	It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.
4.2. Most important symptoms	and effects, both acute and delayed
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Difficulty in breathing. Unconsciousness, possibly death.
Ingestion	A single exposure may cause the following adverse effects: Unconsciousness, possibly death. May cause stomach pain or vomiting. May cause severe internal injury. Small amounts may cause serious damage.
Skin contact	A single exposure may cause the following adverse effects: Pain.
Eye contact	May be slightly irritating to eyes.
4.3. Indication of any immedia	te medical attention and special treatment needed
Notes for the doctor	Treat symptomatically. Keep affected person under observation.
SECTION 5: Firefighting meas	sures
5.1. Extinguishing media	
Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire- extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising fr	om the substance or mixture
Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up. Flammable liquid and vapour. Vapours may be ignited by a spark, a hot surface or an ember. Vapours may form explosive mixtures with air. Fire-water run-off in sewers may create fire or explosion hazard. This product is toxic.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Very toxic or corrosive gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO). Oxides of the following substances: Iron.
5.3. Advice for firefighters	
Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out.

Special protective equipmentWfor firefighters(S

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents.

#### SECTION 6: Accidental release measures

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

Personal precautionsWear protective clothing as described in Section 8 of this safety data sheet. No action shall be<br/>taken without appropriate training or involving any personal risk. Do not touch or walk into<br/>spilled material. Evacuate area. Provide adequate ventilation. No smoking, sparks, flames or<br/>other sources of ignition near spillage. Promptly remove any clothing that becomes<br/>contaminated. Avoid inhalation of vapours and spray/mists. Use suitable respiratory protection<br/>if ventilation is inadequate. Avoid contact with skin and eyes.

#### 6.2. Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

#### 6.3. Methods and material for containment and cleaning up

· · ·	Methods for cleaning up	small quantities with paper towels and evaporate in a safe place. Once evaporation is complete, place paper in a suitable waste disposal container and seal securely. Large Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and
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### 6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. The product is flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. This product is toxic. Immediate first aid is imperative. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Store away from incompatible materials (see Section 10). Store locked up. Keep away from oxidising materials, heat and flames. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.
Storage class	Flammable liquid storage.
7.3. Specific end use(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
SECTION 8: Exposure controls/Personal protection	

# 8.1. Control parameters

# Occupational exposure limits

Long-term exposure limit (8-hour TWA): WEL 0.01 ppm 0.08 mg/m<sup>3</sup>

as Fe

WEL = Workplace Exposure Limit.

STEL

TWA

### 8.2. Exposure controls

## Protective equipment





Appropriate engineering controls	Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Ensure the ventilation system is regularly maintained and tested. In case of insufficient ventilation, wear suitable respiratory equipment. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.
Hand protection	Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene measures	Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
Respiratory protection	Ensure all respiratory protective equipment is suitable for its intended use and is 'UKCA'- marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges suitable for intended use should be used. Full face mask respirators with replaceable filter cartridges suitable for intended use should be used. Half mask and quarter mask respirators with replaceable filter cartridges suitable for intended use should be used.

# Environmental exposure controls

Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties		
Appearance	Liquid.	
Colour	Yellow. to Brown. Orange.	
Odour	Not known.	
Odour threshold	No information available.	
рН	No information available.	
Melting point	-20°C/-4°F	
Initial boiling point and range	103°C/217.04°F	
Flash point	-15°C/5°F Closed cup.	
Evaporation rate	No information available.	
Flammability (solid, gas)	No information available.	
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 3.7 (V)% Upper flammable/explosive limit: 12.5 (V)%	
Vapour pressure	47 hPa @ 25°C/77°F 53 hPa @ 30.3°C/86.54°F	
Vapour density	6.76 - (Air = 1.0)	
Relative density	1.49 g/cm3 @ 25°C/77°F	
Solubility(ies)	Insoluble in water.	
Partition coefficient	No information available.	
Auto-ignition temperature	No information available.	
Decomposition Temperature	No information available.	
9.2. Other information		
Molecular weight	195.90	
SECTION 10: Stability and rea	activity	
10.1. Reactivity		
Reactivity	See the other subsections of this section for further details.	
10.2. Chemical stability		
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.	
10.3. Possibility of hazardous	reactions	
Possibility of hazardous reactions	The following materials may react strongly with the product: Oxidising agents.	
10.4. Conditions to avoid		

Conditions to avoid	Avoid heat, flames and other sources of ignition. Containers can burst violently or explode when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented.
10.5. Incompatible materials	
Materials to avoid	Oxidising materials. Acids - oxidising. Strong alkalis. Amines. halogens
10.6. Hazardous decompositio	on products
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO). Oxides of: Iron.
SECTION 11: Toxicological in	formation
11.1. Information on toxicolog	ical effects
<u>Acute toxicity - oral</u> Summary	Fatal if swallowed.
Acute toxicity oral (LD₅₀ mg/kg)	5.1
Species	Rat
ATE oral (mg/kg)	5.1
Acute toxicity - dermal	
Summary	Toxic in contact with skin.
Acute toxicity dermal (LD₅₀ mg/kg)	300.0
Species	Rat
ATE dermal (mg/kg)	300.0
Acute toxicity - inhalation	
Summary	Fatal if inhaled.
Acute toxicity inhalation (LC₅ vapours mg/l)	0.08
Species	Rat
ATE inhalation (vapours mg/l)	0.08
Skin corrosion/irritation Summary	Based on available data the classification criteria are not met.
Serious eye damage/irritation Summary	Based on available data the classification criteria are not met.
Respiratory sensitisation	

Summary	Based on available data the classification criteria are not met.	
Skin sensitisation		
Summary	Based on available data the classification criteria are not met.	
Germ cell mutagenicity		
Summary	Based on available data the classification criteria are not met.	
Carcinogenicity		
Summary	Based on available data the classification criteria are not met.	
IARC carcinogenicity	None of the ingredients are listed or exempt.	
Reproductive toxicity		
Summary	Based on available data the classification criteria are not met.	
Specific target organ toxicity -	single exposure	
Summary	Based on available data the classification criteria are not met.	
Specific target organ toxicity -	repeated exposure	
Summary	Based on available data the classification criteria are not met.	
Aspiration hazard		
Summary	Based on available data the classification criteria are not met.	
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.	
Inhalation	A single exposure may cause the following adverse effects: Difficulty in breathing. Unconsciousness, possibly death.	
Ingestion	A single exposure may cause the following adverse effects: Unconsciousness, possibly death. May cause stomach pain or vomiting. May cause severe internal injury. Small amounts may	
	cause serious damage.	
Skin contact	A single exposure may cause the following adverse effects: Pain.	
Eye contact	May be slightly irritating to eyes.	
Route of exposure	Ingestion Inhalation Skin and/or eye contact	
Target organs	No specific target organs known.	
SECTION 12: Ecological infor	mation	
Eastoviaity	Not reported as dangerous for the environment lieuwayer large or frequent enils	
Ecotoxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.	
12.1. Toxicity		
Acute aquatic toxicity		
Summary	Based on available data the classification criteria are not met.	
Chronic aquatic toxicity		
Summary	Based on available data the classification criteria are not met.	
12.2. Persistence and degradability		
	The degradability of the product is not known.	
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12.3. Bioaccumulative potential

Bioaccumulative potential	No data available on bioaccumulation.	
Partition coefficient	No information available.	
12.4. Mobility in soil		
 Mobility	No data available.	
12.5. Results of PBT and vPvI	B assessment	
12.6. Other adverse effects		
Other adverse effects	None known.	
SECTION 13: Disposal consid	erations	
13.1. Waste treatment method		
General information	The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.	
Disposal methods	Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.	
SECTION 14: Transport information		
General	For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.	
General 14.1. UN number		
14.1. UN number	documentation using the data shown in this section.	
<u>14.1. UN number</u> UN No. (ADR/RID)	documentation using the data shown in this section.	
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IMDG subsidiary risk	3
ICAO class/division	6.1
ICAO subsidiary risk	3
ADN class	6.1
ADN subsidiary risk	3

#### **Transport labels**



14.4. Packing group		
ADR/RID packing group	Ι	
IMDG packing group	Ι	
ICAO packing group	Ι	
ADN packing group	I	

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

#### 14.6. Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

EmS	F-E, S-D
ADR transport category	1
Emergency Action Code	2WE
Hazard Identification Number (ADR/RID)	663
Tunnel restriction code	(C/D)

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

### **SECTION 15: Regulatory information**

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

National regulationsHealth and Safety at Work etc. Act 1974 (as amended).<br/>The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment<br/>Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].<br/>EH40/2005 Workplace exposure limits.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### Inventories

### **EU - EINECS/ELINCS**

None of the ingredients are listed or exempt.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	<ul> <li>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</li> <li>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</li> <li>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</li> <li>IATA: International Air Transport Association.</li> <li>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</li> <li>IMDG: International Maritime Dangerous Goods.</li> <li>CAS: Chemical Abstracts Service.</li> <li>ATE: Acute Toxicity Estimate.</li> <li>LC50: Lethal Concentration to 50 % of a test population.</li> <li>LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).</li> <li>EC<sub>50</sub>: 50% of maximal Effective Concentration.</li> <li>PBT: Persistent, Bioaccumulative and Toxic substance.</li> <li>vPvB: Very Persistent and Very Bioaccumulative.</li> </ul>
Classification abbreviations and acronyms	Flam. Liq. = Flammable liquid Acute Tox. = Acute toxicity
Classification procedures according to SI 2019 No. 720	Acute Tox. 1 - H330: Acute Tox. 2 - H300: Acute Tox. 3 - H311: : Expert judgement. Flam. Liq. 2 - H225: : Expert judgement.
Training advice	Only trained personnel should use this material.
Revision date	10/03/2022
Revision	1
SDS number	729
Hazard statements in full	H225 Highly flammable liquid and vapour. H300 Fatal if swallowed. H311 Toxic in contact with skin. H330 Fatal if inhaled.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.