Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Date of issue: 05/04/2011 Revision date: 29/11/2022 Supersedes version of: 12/04/2018 Version: 1.3

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

1.1. Product identifier

Trade name : UN1466 Iron (III) n EC-No. : 233-899-5 CAS-No. : 7782-61-8 Product code : IRNA-09A Formula : Fe(NO3)3·9H2O	nitrate nonahydrate Analytical Grade ACS
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1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category

: Laboratory use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

labbox labware s.l. Migjorn, 1 P.O. Box Barcelona (SPAIN) 08338 Premia de Dalt – SPAIN ES T +34 937 07 79 70 - F +34 937 909 532 info@labbox.com - www.labbox.com

1.4. Emergency telephone number

Emergency number

: +34 937 077 970 (For technical information_Office Hours) In case of medical emergency phone 112 or to your local emergency number.

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	

H314

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 1B

Full text of H and EUH statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



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Signal word (CLP)	: Danger
Hazard statements (CLP)	: H314 - Causes severe skin burns and eye damage.
Precautionary statements (CLP)	: P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
	P264 - Wash hands, forearms and face thoroughly after handling.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
	P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated
	clothing. Rinse skin with water/shower.
	P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position
	comfortable for breathing.
	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 or doctor/physician.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients			
3.1. Substances			
Name	Product identifier	%	
Iron (III) nitrate nonahydrate	CAS-No.: 7782-61-8 EC-No.: 233-899-5	≥ 100	

3.2. Mixtures

Not applicable

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.	
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.	
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist.	
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Obtain emergency medical attention.	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects after skin contact Symptoms/effects after eye contact	Causes skin irritation.Causes serious eye irritation.	

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

Never give anything by mouth to an unconscious person.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: ABC-powder.
5.2. Special hazards arising from the substa	nce or mixture
	 May cause fire or explosion; strong oxidiser. May intensify fire; oxidiser. fume.

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5.3. Advice for firefighters	
Firefighting instructions	: Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Combustible.

SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures			
6.1.1. For non-emergency personnel			
Emergency procedures	: No open flames, no sparks, and no smoking.		
6.1.2. For emergency responders			
Protective equipment	: Use personal protective equipment as required. Do not attempt to take action without suitable protective equipment.		
6.2. Environmental precautions			
Prevent entry to sewers and public waters.			

6.3. Methods and material for containment and cleaning up		
For containment Methods for cleaning up	 Collect spillage. Collect spillage. Minimise generation of dust. Shovel or sweep up and put in a closed container for disposal. 	

6.4. Reference to other sections

See Heading 8. For further information refer to section 13.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Ensure good ventilation of the work station. Eliminate all ignition sources if safe to do so. Prevent the build-up of electrostatic charge. Wear personal protective equipment. No open flames. No smoking. Use only non-sparking tools.	
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.	
7.2. Conditions for safe storage, includ	ling any incompatibilities	
Storage conditions	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well-ventilated place. Keep container tightly closed.	
Incompatible products	: Strong acids. Strong bases.	
Incompatible materials	: Heat sources. Sources of ignition. Direct sunlight.	
Storage area	: Store away from heat. Store in a well-ventilated place.	
Special rules on packaging	: Keep only in original container. Store in a closed container.	
7.3. Specific end use(s)		

Laboratory chemicals.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

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8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

Eye protection			
Туре	Field of application	Characteristics	Standard
Category II			EN 166, EN 167, EN 168

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Skin and body protection		
Туре	Standard	
Protective clothing	EN 13034, EN 168 , EN ISO 13982-1, EN ISO 6529, EN ISO 6530	

Hand protection:

protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Category III					EN ISO 374-1, EN 420

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Other skin protection Materials for protective clothing			
Condition	Material	Standard	
		EN ISO 20345, EN 13832-1	

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

The present safety data sheet is consistent with the specific conditions relied on to justify the registration of the substance as isolated intermediate. Do not eat, drink or smoke when using this product. Wash hands with water as a precaution.

9.1. Information on basic physical and ch	emical properties	
Physical state	: Solid	
Colour	: Not available	
Odour	: Not available	
Odour threshold	: Not available	
Melting point	: 47 °C	
Freezing point	: Not available	
Boiling point	: Not available	
Flammability	: Not available	
Explosive limits	: Not applicable	
Lower explosion limit	: Not applicable	
Upper explosion limit	: Not applicable	
Flash point	: Not applicable	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: Not available	
рН	: Not available	
pH solution	: Not available	
Viscosity, kinematic	: Not applicable	
Solubility	: Not available	
Partition coefficient n-octanol/water (Log Kow)	: Not available	
Vapour pressure	: Not available	
Vapour pressure at 50 °C	: Not available	
Density	: 1680 g/cm ³	
Relative density	: Not available	
Relative vapour density at 20 °C	: 1,68	
Particle size	: Not available	

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

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ECTION 10: Stability and reactivity
.1. Reactivity
able in use and storage conditions as recommended in item 7.
.2. Chemical stability
able under normal conditions.
.3. Possibility of hazardous reactions
dangerous reactions known under normal conditions of use.
.4. Conditions to avoid
additional information available
9.5. Incompatible materials
additional information available
.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on hazard of	lasses as defined in Regulation (EC) No 1272/2008	
Acute toxicity (oral)	: Not classified	

Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Causes severe skin burns.
Serious eye damage/irritation	: Assumed to cause serious eye damage
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information	
12.1. Toxicity	
Hazardous to the aquatic environment, short-term : Not classified (acute) Hazardous to the aquatic environment, long-term : Not classified (chronic)	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	

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12.4. Mobility in soil
No additional information available
12.5. Results of PBT and vPvB assessment
No additional information available
12.6. Endocrine disrupting properties
No additional information available
12.7. Other adverse effects
No additional information available

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Regional legislation (waste) Waste treatment methods HP Code	 Disposal must be done according to official regulations. Must follow special treatment according to local regulation. HP8 - "Corrosive:" waste which on application can cause skin corrosion.
SECTION 14: Transport information	
In accordance with ADR / IMDG / IATA / ADN / RID	
14.1. UN number or ID number	
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	: UN 1466 : UN 1466 : UN 1466 : UN 1466 : UN 1466

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: FERRIC NITRATE
Proper Shipping Name (IMDG)	: FERRIC NITRATE
Proper Shipping Name (IATA)	: Ferric nitrate
Proper Shipping Name (ADN)	: FERRIC NITRATE
Proper Shipping Name (RID)	: FERRIC NITRATE
Transport document description (ADR)	: UN 1466 FERRIC NITRATE, 5.1, III, (E)
Transport document description (IMDG)	: UN 1466 FERRIC NITRATE, 5.1, III
Transport document description (IATA)	: UN 1466 Ferric nitrate, 5.1, III
Transport document description (ADN)	: UN 1466 FERRIC NITRATE, 5.1, III
Transport document description (RID)	: UN 1466 FERRIC NITRATE, 5.1, III

14.3. Transport hazard class(es)

ADR	
-	

ADIN	
Transport hazard class(es) (ADR)	: 5.1
Danger labels (ADR)	: 5.1
	: 🔨

IMDG

INDG		
Transport hazard class(es) (IMDG)	:	5.1
Danger labels (IMDG)	:	5.1

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	5.1
IATA Transport hazard class(es) (IATA) Danger labels (IATA)	: 5.1 : 5.1 : 5.1
ADN Transport hazard class(es) (ADN) Danger labels (ADN)	: 5.1 : 5.1 :
RID Transport hazard class(es) (RID) Danger labels (RID)	: 5.1 : 5.1 :
14.4. Packing group	
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	: III : III : III : III : III
14.5. Environmental hazards	
Dangerous for the environment Marine pollutant Other information	 No No No supplementary information available
14.6. Special precautions for user	
Overland transport Classification code (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Special packing provisions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions (ADR)	: O2 : 5kg : E1 : P002, IBC08, LP02, R001 : B3 : MP10 : T1 : TP33
Tank code (ADR) Tank special provisions (ADR) Vehicle for tank carriage Transport category (ADR) Special provisions for carriage - Bulk (ADR)	: SGAV : TU3 : AT : 3 : VC1, VC2, AP6, AP7

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Special provisions for carriage - Loading, unloading	: CV24
and handling (ADR)	
Hazard identification number (Kemler No.)	: 50
Orange plates	50
	1466
Tunnel restriction code (ADR)	: E
EAC code	: L : 1Z
Transport by sea	
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P002, LP02
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-Q
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Violet deliquescent crystals. Soluble in water. Melting point: 47°C. Mixtures with
	combustible material are readily ignited and may burn fiercely. Solutions in water are slightly corrosive to most metals. Harmful if swallowed.
Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y546
PCA limited quantity max net quantity (IATA)	: 10kg
PCA packing instructions (IATA)	: 559
PCA max net quantity (IATA)	: 25kg
CAO packing instructions (IATA)	: 563
CAO max net quantity (IATA)	: 100kg
ERG code (IATA)	: 5L
In law divine terminant data and and	
Inland waterway transport Classification code (ADN)	: 02
Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: B
Equipment required (ADN)	: PP
Provisions prior to loading (ADN)	: LO04
Provisions for carriage in bulk (ADN)	: CO02
Number of blue cones/lights (ADN)	: 0
Additional requirements/Remarks (ADN)	: CO02 and LO04 apply only when this substance is carried in bulk or without packaging
Rail transport	
Classification code (RID)	: 02
Limited quantities (RID)	5kg
Excepted quantities (RID)	
Packing instructions (RID)	: P002, IBC08, LP02, R001
Special packing provisions (RID) Mixed packing provisions (RID)	: B3 : MP10
Portable tank and bulk container instructions (RID)	: T1
Portable tank and bulk container instructions ((ND)	: TP33
(RID)	
Tank codes for RID tanks (RID)	: SGAV
Special provisions for RID tanks (RID)	: TU3
Transport category (RID)	: 3
Special provisions for carriage – Bulk (RID)	: VC1, VC2, AP6, AP7
Special provisions for carriage - Loading, unloading	: CW24
and handling (RID)	

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Colis express (express parcels) (RID)	:	CE11
Hazard identification number (RID)	:	50

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

No REACH Annex XVII restrictions

REACH Annex XIV (Authorisation List)

UN1466 Iron (III) nitrate nonahydrate Analytical Grade ACS is not on the REACH Annex XIV List

REACH Candidate List (SVHC)

UN1466 Iron (III) nitrate nonahydrate Analytical Grade ACS is not on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

UN1466 Iron (III) nitrate nonahydrate Analytical Grade ACS is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

UN1466 Iron (III) nitrate nonahydrate Analytical Grade ACS is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

Iron (III) nitrate nonahydrate is not subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

15.1.2. National regulations

Germany

Water hazard class (WGK)	: WGK 1, Slightly hazardous to water (Classification according to VwVwS, Annex 1 or 2; ID No. 516).
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting	: The substance is not listed
giftige stoffen – Borstvoeding	
NIET-limitatieve lijst van voor de voortplanting	: The substance is not listed
giftige stoffen – Vruchtbaarheid	
NIET-limitatieve lijst van voor de voortplanting	: The substance is not listed
giftige stoffen – Ontwikkeling	
Denmark	
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment		
No additional information available		

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SECTION 16: Other information		
Full text of H- and EUH-statements:		
H314	Causes severe skin burns and eye damage.	
Skin Corr. 1B	Skin corrosion/irritation, Category 1B	

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.