

# **SAFETY DATA SHEET**

Creation Date 22-Sep-2009 Revision Date 14-Feb-2020 Revision Number 2

# 1. Identification

Product Name Cupferron

Cat No. : A16551

CAS-No 135-20-6

Synonyms N-Hydroxy-N-nitrosobenzenamine ammonium salt; N-Nitroso-N-phenylhydroxyamine

ammonium salt

Recommended Use Laboratory chemicals.

**Uses advised against** Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

#### Company

Alfa Aesar

Thermo Fisher Scientific Chemicals, Inc.

30 Bond Street

Ward Hill, MA 01835-8099

Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com

www.alfa.com

### **Emergency Telephone Number**

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660.

After normal business hours, call Carechem 24 at (866) 928-0789.

# 2. Hazard(s) identification

#### Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Category 2

Carcinogenicity

Category 2

Carcinogenicity

Category 2

Specific target organ toxicity (single exposure)

Category 3

Target Organs - Respiratory system.

# Label Elements

#### Signal Word

Danger

#### **Hazard Statements**

Toxic if swallowed Causes skin irritation

Causes serious eye irritation May cause respiratory irritation Suspected of causing cancer



#### **Precautionary Statements**

#### Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear eye/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

#### Response

IF exposed or concerned: Get medical attention/advice

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

#### Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

#### **Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

#### Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

#### Storage

Store locked up

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

#### **Disposal**

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

WARNING. Cancer - https://www.p65warnings.ca.gov/.

# 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Cupferron	135-20-6	>95

# 4. First-aid measures

Eye Contact Immediate medical attention is required. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes.

**Skin Contact** Immediate medical attention is required. Wash off immediately with plenty of water for at

least 15 minutes.

**Inhalation** Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial

respiration. Immediate medical attention is required.

**Ingestion** Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and

effects

No information available.

Notes to Physician Treat symptomatically

# 5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

### **Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

# **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
3	1	1	N/A

### 6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust

formation.

**Environmental Precautions** See Section 12 for additional Ecological Information.

**Methods for Containment and Clean** Wear self-contained breathing apparatus and protective suit. Sweep up and shovel into **Up** suitable containers for disposal. Do not let this chemical enter the environment.

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Handling Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed

then seek immediate medical assistance. Wear personal protective equipment/face

protection. Use only under a chemical fume hood.

Storage Keep in a dry place. Keep container tightly closed. Protect from direct sunlight. Store under

an inert atmosphere. Keep refrigerated.

# 8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure

limitsestablished by the region specific regulatory bodies.

Engineering Measures Ensure that eyewash stations and safety showers are close to the workstation location. Use

only under a chemical fume hood.

**Personal Protective Equipment** 

**Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

**Skin and body protection**Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

# Physical and chemical properties

Physical State Solid Appearance Beige

**Odor** Ammonia-like

Odor Threshold No information available pH No information available

Melting Point/Range 150 - 155 °C / 302 - 311 °F

Boiling Point/RangeNo information availableFlash PointNo information available

Evaporation Rate Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

Upper No data available
Lower No data available
Vapor Pressure No information available

Vapor Density Not applicable

Specific GravityNo information availableSolubilityNo information availablePartition coefficient; n-octanol/waterNo data available

Autoignition TemperatureNo information availableDecomposition TemperatureNo information available

Viscosity
No information av
Not applicable
C6 H9 N3 O2

Molecular FormulaC6 H9 NMolecular Weight155.16

# 10. Stability and reactivity

Reactive Hazard None known, based on information available

**Stability** Hygroscopic. Air sensitive. Light sensitive.

**Conditions to Avoid** Exposure to air. Exposure to light. Incompatible products. Exposure to moist air or water.

Incompatible Materials Strong oxidizing agents, Strong acids, Strong bases

Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)

Hazardous Polymerization Hazardous polymerization does not occur.

Revision Date 14-Feb-2020 Cupferron

**Hazardous Reactions** 

None under normal processing.

# 11. Toxicological information

**Acute Toxicity** 

# **Product Information**

**Component Information** 

Component LD50 Oral		LD50 Dermal	LC50 Inhalation	
Cupferron LD50 = 199 mg/kg (Rat)		Not listed	Not listed	

**Toxicologically Synergistic** 

**Products** 

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes, respiratory system and skin

Sensitization No information available

Carcinogenicity R40 - Limited evidence of a carcinogenic effect.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Cupferron	135-20-6	Not listed	Reasonably	Not listed	X	Not listed
			Anticipated			

No information available **Mutagenic Effects** 

No information available. **Reproductive Effects** 

**Developmental Effects** No information available.

**Teratogenicity** No information available.

STOT - single exposure Respiratory system

STOT - repeated exposure None known

No information available **Aspiration hazard** 

Symptoms / effects,both acute and No information available

delayed

**Endocrine Disruptor Information** No information available

**Other Adverse Effects** The toxicological properties have not been fully investigated.

# 12. Ecological information

**Ecotoxicity** 

Do not empty into drains. .

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

No information available. **Bioaccumulation/ Accumulation** 

**Mobility** Will likely be mobile in the environment due to its water solubility.

### 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Revision Date 14-Feb-2020 Cupferron

# 14. Transport information

DOT

UN-No

**Proper Shipping Name** TOXIC SOLIDS, ORGANIC, N.O.S.

**Technical Name** Cupferron **Hazard Class** 6.1 **Packing Group** Ш

TDG

UN-No UN2811

**Proper Shipping Name** Toxic solid, organic, n.o.s.

**Hazard Class** 6.1 **Packing Group** Ш

**IATA** 

**UN-No** UN2811

**Proper Shipping Name** Toxic solid, organic, n.o.s.

**Hazard Class** 6.1 **Packing Group** 

IMDG/IMO

**UN-No** UN2811

**Proper Shipping Name** Toxic solid, organic, n.o.s.

**Hazard Class** 6.1 **Packing Group** Ш

# 15. Regulatory information

#### **United States of America Inventory**

	Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Г	Cupferron	135-20-6	X	ACTIVE	-

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

### **International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Cupferron	135-20-6	X	-	205-183-2	X	X	Х	Χ	KE-20734

#### U.S. Federal Regulations

### **SARA 313**

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Cupferron	135-20-6	>95	0.1

SARA 311/312 Hazard Categories See section 2 for more information

**CWA (Clean Water Act)** Not applicable Clean Air Act Not applicable

**OSHA** - Occupational Safety and

Health Administration

Not applicable

CERCLA Not applicable

California Proposition 65 This product contains the following Proposition 65 chemicals.

Component CAS-No		California Prop. 65	Prop 65 NSRL	Category	
Cupferron 135-20-6		Carcinogen	3 μg/day	Carcinogen	

### U.S. State Right-to-Know

Regulations

Component Massachusetts		New Jersey	Pennsylvania	Illinois	Rhode Island
Cupferron	X	X	X	X	-

#### **U.S. Department of Transportation**

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

16. Other information

Prepared By Health, Safety and Environmental Department

Email: tech@alfa.com www.alfa.com

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 14-Feb-2020

 Print Date
 14-Feb-2020

**Revision Summary** SDS authoring systems update, replaces ChemGes SDS No. 135-20-6/4.

# **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text

**End of SDS**