# MANGANESE AAS STANDARD SOLUTION 1000MG/L MN IN DILUTED HCL TRACEABLE TO NIST MSDS

CAS-No.: MSDS



# **MATERIAL SAFETY DATA SHEET (MSDS)**

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

1.1. Product identifier

Product form : Mixture

:

Product code : A250H

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

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#### SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Corrosive to metals, H290

Category 1

Skin corrosion/irritation, H315

Category 2

Serious eye damage/eye H319

irritation, Category 2

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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#### 2.2. Label elements

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

Hazard pictograms (CLP)

GHS05

Signal word (CLP) : Warning

Hazard statements (CLP) : H290 - May be corrosive to metals.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

Precautionary statements (CLP) : P302+P352 - IF ON SKIN: Wash with plenty of water/...

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### 2.3. Other hazards

No additional information available

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	95 - 99	Not classified
Hydrochloric acid	(CAS-No.) 7647-01-0 (EC-No.) 231-595-7 (EC Index-No.) 017-002-01-X	>= 2	Skin Corr. 1B, H314 STOT SE 3, H335
MANGANESE (II) CHLORIDE PURIFIED (TETRAHYDRATE) 97	(CAS-No.) 13446-34-9	0.01 - 1	Acute Tox. 4 (Oral), H302

Full text of H-statements: see section 16

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Allow affected person to breathe fresh air. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

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First-aid measures after skin contact : Wash with plenty of water/.... Wash contaminated clothing before reuse. 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. Get medical advice/attention.

First-aid measures after ingestion Rinse mouth. Do not induce vomiting. Get medical advice/attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact : Causes skin irritation. Symptoms/effects after eye contact : Causes serious eve irritation.

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### SECTION 5: Firefighting measures

### **Extinguishing media**

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray. Unsuitable extinguishing media : Do not use extinguishing media containing water.

#### Special hazards arising from the substance or mixture 5.2.

No additional information available

#### **Advice for firefighters**

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory

protection.

#### SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

**Emergency procedures** : Evacuate unnecessary personnel.

#### For emergency responders 6.1.2.

Protective equipment : Use personal protective equipment as required.

**Emergency procedures** : Stop release.

#### 6.2. **Environmental precautions**

Avoid release to the environment.

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

Methods for cleaning up : On land, sweep or shovel into suitable containers.

#### Reference to other sections

No additional information available

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

# **Precautions for safe handling**

Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe vapours.

: Wash hands and other exposed areas with mild soap and water before eating, Hygiene measures

drinking or smoking and when leaving work.

### Conditions for safe storage, including any incompatibilities

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

#### Specific end use(s)

No additional information available

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#### SECTION 8: Exposure controls/personal protection

#### 8.1. **Control parameters**

No additional information available

#### 8.2. **Exposure controls**

Hand protection : Protective gloves

Eye protection : Chemical goggles or safety glasses Skin and body protection : Wear suitable protective clothing Respiratory protection : Wear respiratory protection.

#### **SECTION 9: Physical and chemical properties**

#### Information on basic physical and chemical properties

Physical state : Liquid

Colour : Clear Colorless.

: No data available Odour

Odour threshold : No data available

рΗ : No data available

Relative evaporation rate (butylacetate=1) : No data available

: No data available Melting point

Freezing point : No data available

**Boiling point** : No data available

: No data available Flash point

: No data available Auto-ignition temperature

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density

Solubility

Log Pow

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

: No data available Explosive properties

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: No data available

: No data available

: No data available

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Oxidising properties : No data available

Explosive limits : No data available

#### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Direct sunlight. Overheating. Open flame. Heat. Sparks.

#### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

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

#### **SECTION 12: Ecological information**

## 12.1. Toxicity

No additional information available

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#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

# 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

No additional information available

# **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

UN-No. (ADR) : 1789 UN-No. (IMDG) : 1789 UN-No. (IATA) : 1789 UN-No. (ADN) : 1789 UN-No. (RID) : 1789

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : HYDROCHLORIC ACID
Proper Shipping Name (IMDG) : HYDROCHLORIC ACID
Proper Shipping Name (IATA) : Hydrochloric acid
Proper Shipping Name (ADN) : HYDROCHLORIC ACID
Proper Shipping Name (RID) : HYDROCHLORIC ACID

Transport document description (ADR) : UN 1789 HYDROCHLORIC ACID, 8, II, (E)
Transport document description (IMDG) : UN 1789 HYDROCHLORIC ACID, 8, II
Transport document description (IATA) : UN 1789 Hydrochloric acid, 8, II

Transport document description (ADN)

: UN 1789 HYDROCHLORIC ACID, 8, II

Transport document description (RID)

: UN 1789 HYDROCHLORIC ACID, 8, II

#### 14.3. Transport hazard class(es)

### ADR

Transport hazard class(es) (ADR) : 8

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Danger labels (ADR) : 8



#### **IMDG**

Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8



#### IATA

Transport hazard class(es) (IATA) : 8
Hazard labels (IATA) : 8



## ADN

Transport hazard class(es) (ADN) : 8
Danger labels (ADN) : 8



#### RID

Transport hazard class(es) (RID) : 8
Danger labels (RID) : 8



#### 14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

#### 14.5. Environmental hazards

Dangerous for the environment : No

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Marine pollutant : No

Other information : No supplementary information available

#### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : C1
Special provisions (ADR) : 520
Limited quantities (ADR) : 11
Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02
Mixed packing provisions (ADR) : MP15
Portable tank and bulk container : T8

instructions (ADR)

Portable tank and bulk container special

provisions (ADR)

: TP2

Tank code (ADR) : L4BN

Vehicle for tank carriage : AT

Transport category (ADR) : 2

Hazard identification number (Kemler No.) : 80

Orange plates

80 1789

Tunnel restriction code (ADR) : E EAC code : 2R

#### - Transport by sea

Packing instructions (IMDG) : P001 IBC packing instructions (IMDG) : IBC02 IBC special provisions (IMDG) : B20 Tank instructions (IMDG) : T8 : TP2 Tank special provisions (IMDG) : F-A EmS-No. (Fire) : S-B EmS-No. (Spillage) Stowage category (IMDG) : C

Properties and observations (IMDG) : Colourless liquid.An aqueous solution of the gas hydrogen chloride. Highly corrosive

to most metals. Causes burns to skin, eyes and mucous membranes.

MFAG-No : 157

## - Air transport

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y840
PCA limited quantity max net quantity : 0.5L
(IATA)

PCA packing instructions (IATA) : 851
PCA max net quantity (IATA) : 1L
CAO packing instructions (IATA) : 855
CAO max net quantity (IATA) : 30L
Special provisions (IATA) : A3
ERG code (IATA) : 8L

- Inland waterway transport

Classification code (ADN) : C1

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Special provisions (ADN) : 520

Limited quantities (ADN) : 1 L

Excepted quantities (ADN) : E2

Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EP

Number of blue cones/lights (ADN) : 0

#### - Rail transport

Classification code (RID) : C1
Special provisions (RID) : 520
Limited quantities (RID) : 1L
Excepted quantities (RID) : E2

Packing instructions (RID) : P001, IBC02
Mixed packing provisions (RID) : MP15
Portable tank and bulk container : T8

instructions (RID)

Portable tank and bulk container special

provisions (RID)

: TP2

Tank codes for RID tanks (RID) : L4BN
Transport category (RID) : 2
Colis express (express parcels) (RID) : CE6
Hazard identification number (RID) : 80

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

#### Germany

Reference to AwSV : Water hazard class (WGK) 3, Highly hazardous to water (Classification according to

AwSV, Annex 1)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BlmSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

#### **Netherlands**

SZW-lijst van kankerverwekkende stoffen : None of the components are listed SZW-lijst van mutagene stoffen : None of the components are listed NIET-limitatieve lijst van voor de : None of the components are listed

voortplanting giftige stoffen - Borstvoeding

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NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET limitations liist van va

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

: None of the components are listed

#### **Denmark**

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

#### 15.2. Chemical safety assessment

No additional information available

#### **SECTION 16: Other information**

#### Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

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.

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