

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: Revision date: 7/21/2015 Supersedes: 6/6/2013

Version: 4.0

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

1.1. Product identifier

 Product form
 : Substance

 Trade name
 : Sodium monoxide

 EC no
 : 215-208-9

 CAS No
 : 1313-59-3

 Formula
 : Na2O

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Synthesis intermediate

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

MSSA S.A.S.

111, Rue de la Volta - Pomblière 73600 SAINT-MARCEL - France

T +33 (0)4 79 24 70 70 - F +33 (0)4 79 24 70 50

fds-msds@metauxspeciaux.fr

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0844 892 0111	UK only, Monday to Friday, 08.00 to 18.00 hours

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin Corr. 1A H314

Full text of classification categories and H statements : see section 16

Adverse physicochemical, human health and : Cau

environmental effects

: Causes severe skin burns and eye damage. Reacts violently with water.

2.2. Label elements

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

Hazard pictograms (CLP)



GHS05

Signal word (CLP) : Danger

Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage

Precautionary statements (CLP) : P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

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 P302+P352 - IF ON SKIN: Wash with plenty of soap and water

EUH-statements : EUH014 - Reacts violently with water

2.3. Other hazards

Other hazards not contributing to the : None, to our knowledge.

7/22/2015 EN (English) 1/7

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

classification

SECTION 3: Composition/information on ingredients

Substance

: Disodium oxide Name : 1313-59-3 CAS No EC no : 215-208-9

Mixture

Not applicable

SECTION 4: First aid measures

Description of first aid measures

First-aid measures after inhalation

: Move the affected person away from the contaminated area and into the fresh air. Call a doctor. First-aid measures after skin contact Remove all contaminated clothing and footwear. Rinse with plenty of water. Get immediate

medical advice/attention.

Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes First-aid measures after eye contact

minimum). Consult an eye specialist immediately.

If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious First-aid measures after ingestion

person anything to drink. Never attempt to induce vomiting. Call a physician immediately.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Irritation to respiratory tract.

Symptoms/injuries after skin contact : Burns. Symptoms/injuries after eye contact : Burns

Symptoms/injuries after ingestion : Corrosion or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Dry powder. Dry sand. Unsuitable extinguishing media : Water. Foam.

Special hazards arising from the substance or mixture

Hazardous decomposition products in case of : On combustion or on thermal decomposition (pyrolysis) releases : Carbon oxides (CO, CO2).

5.3 Advice for firefighters

Firefighting instructions : Clear the danger area. Be careful to flashback of fire.

Protection during firefighting Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Avoid contact with skin and eyes. Avoid contact of substance with water. Do not attempt to take

action without suitable protective equipment. Clear the danger area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

Environmental precautions

Do not allow product to spread into the environment.

Methods and material for containment and cleaning up

Sweep up or vacuum up the product. Avoid creating or spreading dust. Gather the product and For containment

place it in a spare container that has been suitably labelled.

Other information : Dispose of solid residues at an authorized site.

Reference to other sections

For further information refer to section 13.

7/22/2015 EN (English) 2/7

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid creating or spreading dust. Avoid any direct

contact with the product. Avoid contact with skin and eyes. Avoid contact of substance with

water.

Hygiene measures : Do not drink, eat or smoke in the workplace. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep the container hermetically sealed. Store in a cool, well-ventilated place. Keep container

dry.

Incompatible materials : Water. Acids. Organic materials.

Packaging materials : Original packaging.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Density

Appropriate engineering controls : Ensure good ventilation of the work station. Extraction to remove dust at its source. Safety

shower. Eye fountain. Monitor the atmosphere at regular intervals.

Hand protection : Protective gloves. The protective gloves to be used must comply with the specifications of EC

directive 89/686/EEC and the resultant standard EN 374. Breakthrough time: refer to the

recommendations of the supplier

Eye protection : Goggles + face shield Skin and body protection : Protective clothing

Respiratory protection : In the event of insufficient ventilation: Respiratory protective device with a particle filter (P2 /

P3)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: SolidAppearance: Pellet.Colour: whitish.Odour: odourless.

Odour threshold : No data available pH : Not applicable Relative evaporation rate (butyl acetate=1) : No data available

Melting point : 920 °C

Freezing point : No data available

1600 °C Boiling point Flash point : Not applicable Auto-ignition temperature : Not applicable Decomposition temperature No data available Flammability (solid, gas) No data available No data available Vapour pressure Relative vapour density at 20 °C : No data available Relative density No data available

Solubility : Water: Reacts violently with water

1400 kg/m³

Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

7/22/2015 EN (English) 3/7

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Exothermic reaction with water with hydrogen release.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

Reacts violently with water.

10.4. Conditions to avoid

Moisture.

10.5. Incompatible materials

Water. Moisture. Acids. Organic materials.

10.6. Hazardous decomposition products

On contact with water: Soda.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

Skin corrosion/irritation : Causes severe skin burns and eye damage.
Serious eye damage/irritation : Serious eye damage/eye irritation, Category 1

Respiratory or skin sensitisation

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity (single exposure)

Solidate by examination, eategery in the case of the classification criteria are not met)

Not classified (Based on available data, the classification criteria are not met)

Not classified (Based on available data, the classification criteria are not met)

Not classified (Based on available data, the classification criteria are not met)

Not classified (Based on available data, the classification criteria are not met)

Specific target organ toxicity (repeated

exposure)

: Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Technical impossibility to obtain the data)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Before neutralisation the alkalinity of the product may represent a danger to aquatic organisms.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Sodium monoxide (1313-59-3)			
Bioaccumulative potential	Not bioaccumulable.		

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

Waste treatment methods : Dispose of in accordance with relevant local regulations. Incinerate at a licensed installation.

Additional information : The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal.

SECTION 14: Transport information

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

7/22/2015 EN (English) 4/7

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

14.1.	UN number		
UN-No. (ADR)	:	1825
UN-No. (IMDG)	:	1825
UN-No. (IATA)	:	1825
UN-No. (ADN)	:	1825
UN-No. (RID)	:	1825

14.2. UN proper shipping name

Proper Shipping Name (ADR) : SODIUM MONOXIDE
Proper Shipping Name (IMDG) : SODIUM MONOXIDE
Proper Shipping Name (IATA) : Sodium monoxide
Proper Shipping Name (ADN) : SODIUM MONOXIDE
Proper Shipping Name (RID) : SODIUM MONOXIDE

Transport document description (ADR) : UN 1825 SODIUM MONOXIDE, 8, II, (E)
Transport document description (IMDG) : UN 1825 SODIUM MONOXIDE, 8, II

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8
Hazard 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

7/22/2015 EN (English) 5/7

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830



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 Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : C6
Limited quantities (ADR) : 1kg
Excepted quantities (ADR) : E2

Packing instructions (ADR) : P002, IBC08

Special packing provisions (ADR) : B4

Mixed packing provisions (ADR) : MP10

Portable tank and bulk container instructions : T3

(ADR)

Portable tank and bulk container special

provisions (ADR)

Tank code (ADR) : SGAN
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Special provisions for carriage - Packages : V11

(ADR)

Hazard identification number (Kemler No.) : 80

Orange plates

80 1825

: TP33

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

- Transport by sea

Limited quantities (IMDG) : 1 kg Excepted quantities (IMDG) : E2 Packing instructions (IMDG) : P002 IBC packing instructions (IMDG) : IBC08 IBC special provisions (IMDG) : B2, B4 Tank instructions (IMDG) : T3 : TP33 Tank special provisions (IMDG) : F-A EmS-No. (Fire) : S-B EmS-No. (Spillage) Stowage category (IMDG) : A MFAG-No : 157

- Air transport

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y844
PCA limited quantity max net quantity (IATA) : 5kg
PCA packing instructions (IATA) : 859

7/22/2015 EN (English) 6/7

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

PCA max net quantity (IATA) : 15kg CAO packing instructions (IATA) : 863 CAO max net quantity (IATA) : 50kg ERG code (IATA) : 8L

- Inland waterway transport

Classification code (ADN) : C6 Limited quantities (ADN) : 1 kg Excepted quantities (ADN) : E2 : PP, EP Equipment required (ADN) Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : C6 Limited quantities (RID) : 1kg Excepted quantities (RID) : E2

Packing instructions (RID) : P002, IBC08

Special packing provisions (RID) : B4 Mixed packing provisions (RID) : MP10 Portable tank and bulk container instructions : T3

(RID)

Portable tank and bulk container special

provisions (RID)

: TP33

Tank codes for RID tanks (RID) : SGAN Transport category (RID) : 2 Special provisions for carriage - Packages : W11

(RID)

Colis express (express parcels) (RID) : CE10 Hazard identification number (RID) : 80

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. **EU-Regulations**

No REACH Annex XVII restrictions

Sodium monoxide is not on the REACH Candidate List Sodium monoxide is not on the REACH Annex XIV List

15.1.2. **National regulations**

No additional information available

Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

This sheet was updated (refer to the date at the top of this page). SDS changed section(s): 2-14.

RTECS (Registry of Toxic Effects of Chemical Substances). HSDB (Hazardous Substances Data sources

Data Bank). Joint Research Center (JRC)

Other information Safety data sheet established by: LISAM SERVICES - TELEGIS

17. Rue de la Couture F-60400 PASSEL Safety Made Easy with www.lisam.com.

Full text of H- and EUH-statements:

Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H314	Causes severe skin burns and eye damage
EUH014	Reacts violently with water

SDS EU (REACH Annex II)

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

7/22/2015 EN (English) 7/7