

Safety Data Sheet

according to Regulation (EU) 2015/830

SDS Ref.: SOUDE CAUSTIQUE

Date of issue: 12/19/2019 Revision date: 8/24/2016 Supersedes: 5/24/2011 Version: 3.0

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

1.1. Product identifier

Product form	: Substance
Substance name	: SOUDE CAUSTIQUE & SOUDE CAUSTIQUE COSMOS
Chemical name	: sodium hydroxide; caustic soda
EC Index-No.	: 011-002-00-6
EC-No.	: 215-185-5
CAS-No.	: 1310-73-2
REACH registration No	: 01-2119457892-27
Product code	: SOUDE CAUSTIQUE
Product group	: Raw material

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

1.2.1. Relevant identified uses

Main use category	: Industrial use
Function or use category	: Catalyst, pH-regulating agents, Cleaning product

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

INTERCHIMIE
ZAC du Parc
13 rue Louis Blériot
FR- 77290 COMPANS
T T: +33 (0)1 64 77 76 27
qualite@interchimie.fr - www.interchimie.fr

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Corrosive to metals, Category 1	H290
Skin corrosion/irritation, Category 1A	H314
Full text of H statements : see section 16	
Specific concentration limits:	
(0.5 =<C < 2)	Skin Irrit. 2, H315
(0.5 =<C < 2)	Eye Irrit. 2, H319
(2 =<C < 5)	Skin Corr. 1B, H314
(5 =<C < 100)	Skin Corr. 1A, H314

Adverse physicochemical, human health and environmental effects

May be corrosive to metals. Causes severe skin burns and eye damage.

2.2. Label elements

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

Hazard pictograms (CLP)



GHS05

Signal word (CLP)	: Danger
Hazard statements (CLP)	: H290 - May be corrosive to metals. H314 - Causes severe skin burns and eye damage.

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Precautionary statements (CLP)

: P260 - Do not breathe dust, fume, gas, mist, spray, vapours.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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 doctor, a POISON CENTER.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical name : sodium hydroxide; caustic soda
CAS-No. : 1310-73-2
EC-No. : 215-185-5
EC Index-No. : 011-002-00-6

Name	Product identifier	%
	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6 (REACH-no) 01-2119457892-27	>= 99

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Respiratory arrest: artificial respiration or oxygen. Call a physician immediately.
First-aid measures after skin contact : Wash with plenty of water/.... Take off immediately all contaminated clothing. Call a physician immediately. Wash contaminated clothing before reuse.
First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Immediately call a POISON CENTER/doctor. If breathing is difficult, give oxygen.

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

Symptoms/effects after inhalation : Corrosive to the respiratory tract. Cough. Shortness of breath.
Symptoms/effects after skin contact : Burns. Rednesses.
Symptoms/effects after eye contact : Serious damage to eyes. Lacrimation. Redness of the eye tissue. Can cause blindness.
Symptoms/effects after ingestion : Burns. Swallowing a small quantity of this material will result in serious health hazard. Nausea. Vomiting. May cause gastric irritation. Diarrhoea.

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

En cas de difficulté d'ouverture des paupières, administrer un collyre analgésique (oxybuprocaine).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Making extinguishing agents environment-friendly.
Unsuitable extinguishing media : Do not use extinguishing media containing water.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Non combustible. Not flammable.
Reactivity in case of fire : Reacts violently with water. Gives off hydrogen by reaction with metals.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.
Other information : Prevent fire fighting water from entering the environment.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate air ventilation. Use protective clothing.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Do not breathe vapours. Do not breathe dust. Avoid contact with skin and eyes. Take any precaution to avoid mixing with incompatible products.

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".

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product. Minimise generation of dust.

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

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13 : "Disposal considerations". 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. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not eat, drink or smoke when using this product. Wear personal protective equipment. Do not breathe dust. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Reacts with water.

Hygiene measures : Do not eat, drink or smoke when using this product. 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, including any incompatibilities

Storage conditions : Store in original container. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Protect from moisture.

Incompatible materials : Metals.

Packaging materials : SUITABLE MATERIAL: stainless steel, polypropylene. paper with plastic inner lining.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Austria - Occupational Exposure Limits

MAK (mg/m ³)	2 mg/m ³ (einatembare Fraktion)
MAK Short time value (mg/m ³)	4 mg/m ³ max. 8x5 min./Schicht (einatembare Fraktion) (gemessen als Momentanwert)

Czech Republic - Occupational Exposure Limits

Expoziční limity (PEL) (mg/m ³)	1 mg/m ³
Expoziční limity (NPK-P) (mg/m ³)	2 mg/m ³
Remark (CZ)	I

France - Occupational Exposure Limits

VLE (mg/m ³)	2 mg/m ³ INRS ED 984
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Hungary - Occupational Exposure Limits

AK-érték	2 mg/m ³
CK-érték	2 mg/m ³

Ireland - Occupational Exposure Limits

OEL (15 min ref) (mg/m ³)	2 mg/m ³
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Lithuania - Occupational Exposure Limits

NRV (mg/m ³)	2 mg/m ³
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Remark (LT)	Ū
Poland - Occupational Exposure Limits	
NDS (mg/m ³)	0.5 mg/m ³
NDSch (mg/m ³)	1 mg/m ³
Slovakia - Occupational Exposure Limits	
NPHV (priemerná) (mg/m ³)	2 mg/m ³
Spain - Occupational Exposure Limits	
VLA-EC (mg/m ³)	2 mg/m ³
Sweden - Occupational Exposure Limits	
nivågränsvärde (NVG) (mg/m ³)	1 mg/m ³
takgränsvärde (TGV) (mg/m ³)	2 mg/m ³
Anmärkning (SE)	inhalable dust
United Kingdom - Occupational Exposure Limits	
WEL STEL (mg/m ³)	2 mg/m ³
Norway - Occupational Exposure Limits	
Grønseverdier (Takverdi) (mg/m ³)	2 mg/m ³
Switzerland - Occupational Exposure Limits	
MAK (mg/m ³)	2 mg/m ³
KZGW (mg/m ³)	2 mg/m ³
Remark	(einatembarer Staub)
USA - ACGIH - Occupational Exposure Limits	
ACGIH Ceiling (mg/m ³)	2 mg/m ³

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DNEL/DMEL (Workers)

Long-term - systemic effects, inhalation	1 mg/m ³
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8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Ensure exposure is below occupational exposure limits (where available).

Materials for protective clothing:

neoprene. PVC

Hand protection:

Protective gloves. Polyvinylchloride (PVC). Hydrogenated Nitrile -Butadiene rubber (HNBR). Butyl rubber (IIR). Natural rubber (NR)

Eye protection:

Safety glasses. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition	Standard
	Type P2		

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

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Molecular mass	: 40.01 g/mol
Colour	: white.
Odour	: odourless.
Odour threshold	: No data available
pH	: > 13
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 318.4 °C
Freezing point	: Not applicable
Boiling point	: 1.388 pression : 101.3 kPa
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: 1 hPa 739°C
Relative vapour density at 20 °C	: 2.13 20°C
Relative density	: Not applicable
Density	: 1.14 kg/m ³ 20°C
Solubility	: Soluble in alcohols. Water: 1.1 g/l 20°C
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not applicable.
Oxidising properties	: No dangerous reactions known.
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Reacts violently with water. May react violently with acids. Reacts exothermically with (some) acids. Gives off hydrogen by reaction with metals.

10.4. Conditions to avoid

Direct sunlight. Overheating. Moisture. gel.

10.5. Incompatible materials

metals. Water. Acids. Oxidizing agent.

10.6. Hazardous decomposition products

Hydrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: > 13
Serious eye damage/irritation	: Serious eye damage, category 1, implicit pH: > 13
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Corrosive to eyes, respiratory system and skin
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified

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LC50 fish 1	35 - 189 mg/l
EC50 other aquatic organisms 1	40.4 (48h) - Ceriodaphnia

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

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Mobility in soil : solubilité et mobilité importantes (eau, sol/sédiments)

12.5. Results of PBT and vPvB assessment

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information : Avoid release to the environment.






SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Neutralize remainder with acid. Dilute with plenty of water.
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 1823	UN 1823	UN 1823	UN 1823	UN 1823
14.2. UN proper shipping name				
SODIUM HYDROXIDE, SOLID	SODIUM HYDROXIDE, SOLID	Sodium hydroxide, solid	SODIUM HYDROXIDE, SOLID	SODIUM HYDROXIDE, SOLID
Transport document description				
UN 1823 SODIUM HYDROXIDE, SOLID, 8, II, (E)	UN 1823 SODIUM HYDROXIDE, SOLID, 8, II	UN 1823 Sodium hydroxide, solid, 8, II	UN 1823 SODIUM HYDROXIDE, SOLID, 8, II	UN 1823 SODIUM HYDROXIDE, SOLID, 8, II
14.3. Transport hazard class(es)				
8	8	8	8	8
				
14.4. Packing group				
II	II	II	II	II

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14.5. Environmental hazards

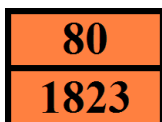
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
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No supplementary information available

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 (ADR)	: T3
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V11
Hazard identification number (Kemler No.)	: 80
Orange plates	:



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
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Segregation (IMDG)	: SG35
MFAG-No	: 154

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
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
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0

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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 (RID)	: T3
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 (RID)	: W11
Colis express (express parcels) (RID)	: CE10
Hazard identification number (RID)	: 80

14.7. Transport in bulk according to Annex II of Marpol 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

No REACH Annex XVII restrictions

SOUDE CAUSTIQUE & SOUDE CAUSTIQUE COSMOS is not on the REACH Candidate List

SOUDE CAUSTIQUE & SOUDE CAUSTIQUE COSMOS is not on the REACH Annex XIV List

SOUDE CAUSTIQUE & SOUDE CAUSTIQUE COSMOS 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.

SOUDE CAUSTIQUE & SOUDE CAUSTIQUE COSMOS 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

15.1.2. National regulations

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on the Canadian DSL (Domestic Substances List)

Listed on the Korean ECL (Existing Chemicals List)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Germany

Reference to AwSV : Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to VwVwS, Annex 1 or 2; ID No. 142)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

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 giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

Denmark

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

15.2. Chemical safety assessment

A chemical safety assessment has been carried out disponible sur demande.

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SECTION 16: Other information

Data sources : This MSDS has been established with data of MSDS coming from upstream suppliers.

Full text of H- and EUH-statements:	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

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.