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SAFETY DATA SHEET

SODIUM METHOXIDE 30%

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

1.1 Product identifier:	
CAS Number:	124-41-4
EC number:	204-699-5
1.2 SYNONYMS:	• Sodium Methylate • Sodium Methanolate • Sodium Methoxide Solution (when dissolved in methanol) • Sodium O-Methylate • Sodium O-Methoxide

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 • Flammable liquid(Category 3) • Corrosive to metals (Category 1) • Acute toxicity, inhalation (Category 3) • Acute toxicity, oral (Category 3) • Acute toxicity, dermal (Category 3) • Skin corrosion/irritation (Category 1A) • Serious eye damage/eye irritation (Category 1) • Specific target organ toxicity, single exposure (Category 1)

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Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	**H226:** Flammable liquid and vapour. **H290:** May be corrosive to metals. **H314:** Causes severe skin burns and eye damage. **H311:** Toxic in contact with skin. **H331:** Toxic if inhaled. **H301:** Toxic if swallowed. **H370:** Causes damage to organs.
Precautionary Statements:	**P260:** Do not breathe dust/fume/gas/mist/vapors/spray. **P261:** Avoid breathing mist/vapors. **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 immediately all contaminated clothing. Rinse skin with water/shower. **P304+P340:** IF INHALED: Remove person to fresh air and keep 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. P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. **P222:** Do not allow contact with air. **P280:** Wear protective gloves/eye protection.

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	P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower **P405:** Store locked up. **P403+P235:** Store in a well-ventilated place. Keep cool. **P404:** Store in a closed container. **P501:** Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
2.3 Other hazards:	
Inhalation:	can cause respiratory irritation, coughing, and damage to the respiratory tract, leading to potential long-term health effects.
Ingestion:	can cause severe damage to the mouth, throat, esophagus, and stomach, potentially leading to chemical burns and internal organ damage.
Skin Contact:	can cause severe chemical burns, irritation, and tissue damage, potentially leading to long-term skin damage if not treated promptly.
Eye contact:	can cause severe eye irritation, chemical burns, and permanent eye damage, potentially leading to vision loss if not treated immediately.
Chronic Exposure:	can lead to long-term skin damage, respiratory issues, and potential organ toxicity, particularly if inhaled or repeatedly in contact with the skin. It may also increase the risk of chemical burns or scarring with prolonged exposure.

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Aggravation of pre-existing conditions:	may aggravate pre-existing conditions such as respiratory disorders (e.g., asthma, bronchitis), skin conditions (e.g., eczema or dermatitis), and gastrointestinal issues (e.g., ulcers), due to its corrosive and irritating properties.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 124-41-4 SODIUM METHOXIDE 30% 67-56-1 METHANOL 70%
Identification number(s):	EC number: 204-699-5 (SODIUM METHOXIDE) 200-659-6 (METHANOL)

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:	Remove contaminated clothing. Wash with soap and water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion. Never give anything by mouth to an unconscious person. Do not

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	induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	The most important symptoms and effects include acute skin and eye burns, respiratory irritation, gastrointestinal damage if ingested, and potential long-term tissue damage or respiratory issues with chronic exposure.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Water spray. Alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture:	Can generate methanol vapours and caustic sodium hydroxide when react with water.
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
5.4 further information:	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.

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6.2 Environmental precautions:	Do not enter this chemical into drains.
6.3 Methods and material for containment and cleaning up:	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closin return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.g containers. Spill must not

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
7.2 Conditions for safe storage, including any incompatibilities:	Store in original containers. Keep containers securely sealed Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area.
Requirements to be met by storerooms and receptacles:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended.
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws. Wash and dry hands.
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	Clear liquid
Colour:	Colourless or pale yellow
Odour:	Alcohol-like (methanol)
pH-value:	12
Melting point/Melting range:	-97°C
Boiling point/Boiling range:	65°C
Flammability (solid, gaseous):	Flammable
Ignition temperature:	455°C
Decomposition temperature:	No data available
Self-igniting:	None
Flash point:	12°C
Danger of explosion:	None
Explosion limits: Lower:	5.5%
Explosion limits: Upper:	44%
Vapour pressure:	12.3 kPa at 20 °C
Density at 20 °C:	0.80 g/cm^3

Relative density:	0.80
Vapour density:	1.1
Evaporation rate:	No data available
Solubility in / Miscibility with- ·water at 20 °C:	Completely soluble in water.
Partition coefficient:(n-octanol/water)	-0.77
Viscosity:	0.59 mPa.s at 20°C

SECTION 10: Stability and reactivity

10.1 Reactivity	No reaction under storage conditions.
10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	Reacts with water and acids causing exothermic reactions.

10.4 Conditions to avoid	Excessive heat, moisture, incompatible materials.
10.5 Incompatible materials	carbon dioxide, water, acids, substances with an acid reaction, light metals.
10.6 Hazardous decomposition products	sodium hydroxide, methanol.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	**LD50** (Oral, Rat): 1687 mg/kg **LD50** (Dermal, Rabbit: 17000 mg/kg **LC50** (Inhalation Rat): 128 mg/l (4hr)
Skin corrosion/Irritation:	Primary skin irritation rabbit: Corrosive.
Serious eye damage/irritation:	Eye irritation rabbit: strongly corrosive
Respiratory damage/irritation:	
Ingestion:	
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity - single exposure:	No data available
Specific target organ toxicity - repeated exposure:	No data available
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Biodegradability:	Not biodegradable

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SECTION 12: Ecological information

12.1 Toxicity **Aquatic toxicity:**	LC50(fish): 125 mg/l (96hr) EC50(daphnia): 40,4 mg/l (48hr) EC50(algae): 22000 mg/l (72hr)
12.2 Persistence and degradability:	moderately biodegradable and persistent
12.3 Bioaccumulative potential:	Not bioaccumulative
12.4 Mobility in soil:	Moderate mobility
12.5 Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging **Recommendation:**	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Water, diluted acids, Absorbent Materials.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	3270
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	Sodium methoxide

14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	4.3
14.4 Packing group · ADR, IMDG, IATA:	2
14.5 Environmental hazards:	Not applicable
14.6 Special precautions for user:	Handle responsibly.

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is classified in listed substance as flammable and corrosive substances.
Named dangerous substances:	This substance is listed in the annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has been carried out under REACH regulation.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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