

Safety Data Sheet AKS740 Date of issue: 19/10/2015 Version: 1.0

Enabling Your Technology	
SECTION 1: Identification of the sub	ostance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Physical state	: Solid
Substance name	: SODIUM ETHOXIDE. 95%
Product code	: AKS740
Formula	: C2H5NaO
Synonyms	: SODIUM ETHYLATE; ETHANOL, SODIUM SALT
Chemical family	: METAL ALCOHOLATE
1.2. Relevant identified uses of the subs	stance or mixture and uses advised against
1.2.1. Relevant identified uses	
Use of the substance/mixture	: Chemical intermediate
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety	data sheet
GELEST, INC.	
11 East Steel Road Morrisville, PA 19067	
USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:00	AM - 5:30 PM EST
info@gelest.com - www.gelest.com	
GELEST INC.	
Fritz-Klatte-Strasse 8	
65933 Frankfurt	
Germany	
T +49 (0) 69 3535106-500 - F +49 (0) 69 35351	06-501 - (M-F): 8:00 AM - 4:00 PM
info@gelestde.com - www.gelestde.com	
1.4. Emergency telephone number Emergency number Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)
SECTION 2: Hazards identification	
2.1. Classification of the substance or n	nixture
Classification according to Regulation (EC) I	
Self-Heating Substances and Mixtures, Categor	
Skin corrosion/irritation, Category 1B	H314
Serious eye damage/eye irritation, Category 1	H318
Full text of H statements : see section 16	
Adverse physicochemical, human health and	d environmental effects
No additional information available	
2.2. Label elements	
Labelling according to Regulation (EC) No. 1	272/2008 [CLP]
Hazard pictograms (CLP)	\wedge \wedge
	\mathbf{V} \mathbf{V}
	GHS02 GHS05
Signal word (CLP)	: Danger

Signal word (CLP) Hazard statements (CLP) Danger
H251 - Self-heating: may catch fire.
H314 - Causes severe skin burns and eye damage.

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Precautionary statements (CLP)	 P280 - Wear protective gloves/protective clothing/eye protection/face protection. P501 - Dispose of contents/container to licensed waste disposal facility. P235+P410 - Keep cool. Protect from sunlight. P260 - Do not breathe dust. P264 - Wash hands thoroughly after handling. P310 - Immediately call a POISON CENTER or doctor/physician
	6) 6

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients			
3.1. Substances			
Substance type	: Mono-constituent		
Name	: SODIUM ETHOXIDE. 95%		
CAS-No.	: 141-52-6		
EC-No.	: 205-487-5		

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium ethoxide	(CAS-No.) 141-52-6 (EC-No.) 205-487-5 (EC Index-No.) 603-041-00-8	90 - 100	Self-heat. 1, H251 Skin Corr. 1B, H314

Full text of H-statements: see section 16

3.2. Mixtures	
Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measur	res
First-aid measures general	 Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.
First-aid measures after inhalation	 Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medicadvice.
First-aid measures after skin contact	: Wash with plenty of water/ Get medical advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, i present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Get medical advice/attention.
4.2. Most important symptoms and	l effects, both acute and delayed
Symptoms/effects	: Causes severe skin burns and eye damage.
Symptoms/effects after inhalation	: Inhalation will cause sneezing, irritation and burns.
Symptoms/effects after skin contact	: Causes (severe) skin burns. Worker will notice a slippery feeling on washing.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate m	edical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	res
5.1. Extinguishing media	
Suitable extinguishing media	: Dry chemical. Dry soda ash.
Unsuitable extinguishing media	: Do not use water or carbon dioxide.
5.2. Special hazards arising from t	he substance or mixture
Fire hazard	: Flammable solid. Irritating fumes and caustic vapors may develop when material is exposed to elevated temperatures or open flame.
5.3. Advice for firefighters	
Firefighting instructions	: Exercise caution when fighting any chemical fire. Protect against caustic dust, smoke and water

Protection during firefighting

water.

: Wear pressure demand self-contained breathing apparatus with full facepiece and full protective clothing. Avoid contact with skin and eyes. Do not breathe dust.

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SECTION 6: Accidental release mea	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
General measures	: Eliminate every possible source of ignition. Use special care to avoid static electric charges.
6.1.1. For non-emergency personnel	
Protective equipment	: Wear protective equipment as described in Section 8.
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notif	y authorities if product enters sewers or public waters.
6.3. Methods and material for containing	ent and cleaning up
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Use only non-sparking tools.
6.4. Reference to other sections	
See Heading 8. Exposure controls and personal	protection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid contact with skin and eyes. Do not breathe dust. Avoid dust formation. Ground containers when handling powder. Provide local exhaust or general room ventilation to minimize exposure to dust.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, includi	ng any incompatibilities
Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical equipment.
Storage conditions	: Keep container tightly closed. Store locked up. Store under dry nitrogen or argon in sealed containers.
Incompatible materials	: Acids. alcohols. Carbon dioxide. Esters. Halogens. Ketones. Moist air. Water.
Storage area	: Store in a well-ventilated place. Store away from heat.
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

Appropriate engineering controls:

Provide local exhaust or general room ventilation.

Personal protective equipment:

Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection:

Neoprene or nitrile rubber gloves

Eye protection:

Chemical goggles. Contact lenses should not be worn

Skin and body protection:

Wear suitable protective clothing. Long-sleeved fire-resistant lab uniform or coverall is recommended.

Respiratory protection:

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Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (teal cartridge) respirator.

SECTION 9: Physical and chemical			
9.1. Information on basic physical and			
Physical state	: Solid		
Appearance	: Powder.		
Molecular mass	: 68.05 g/mol		
Colour	: Off-white to yellow.		
Odour	: No data available		
Odour threshold	: No data available		
Refractive index	: No additional information available		
рН	: No data available		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: 260 °C slowly decomposes		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: Flammable solid.		
Vapour pressure	: No data available		
Relative vapour density at 20 °C	: No data available		
Relative density	: No data available		
% Volatiles	: 75 %		
Solubility	: Reacts with water. Dissolves. Organic solvent:250 g/l Soluble: ethanol @ 20°C		
Log Pow	: No data available		
Log Kow	: 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		
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 nitrogen or argon in sealed contain	ners.		
10.3. Possibility of hazardous reactions			
Material decomposes slowly in contact with moist air and rapidly in contact with water.			
10.4. Conditions to avoid			
Heat. Open flame. Sparks.			
10.5. Incompatible materials			
Acids. alcohols. Carbon dioxide. Esters. Halogens. Ketones. Moist air. Water.			
10.6. Hazardous decomposition products			
Caustic organic vapors. Ethanol. Sodium hydroxide.			
SECTION 11: Toxicological information			
11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
Skin corrosion/irritation	: Causes severe skin burns and eye damage.		
Serious eye damage/irritation	: Causes severe skin burns and eye damage.		
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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		
Symptoms/effects after inhalation	: Inhalation will cause sneezing, irritation and burns.		
Symptoms/effects after skin contact	: Causes (severe) skin burns. Worker will notice a slippery feeling on washing.		
Symptoms/effects after eye contact	: Causes serious eye damage.		
Symptoms/effects after ingestion	May be harmful if swallowed.		
Reason for classification	: Expert judgment		
SECTION 12: Ecological information	n		
12.1. Toxicity			
Acute aquatic toxicity	: Not classified		
Chronic aquatic toxicity	: Not classified		
12.2. Persistence and degradability			
No additional information available			
12.3. Bioaccumulative potential			
No additional information available			

12.4.Mobility in soilNo 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 consideration	IS
13.1. Waste treatment methods	
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.

: Avoid release to the environment.

Ecology - waste materials

SECTION 14: Transport information

14.1. UN number In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number		
UN-No. (ADR)	: 2925	
UN-No. (IMDG)	: 2925	
UN-No. (IATA)	: 2925	
UN-No. (ADN)	: 2925	
UN-No. (RID)	: 2925	
14.2. UN proper shipping name		
Proper Shipping Name (ADR)	: FLAMMABLE SOLID, CORROSIVE, OR	RGANIC, N.O.S.
Proper Shipping Name (IMDG)	: FLAMMABLE SOLID, CORROSIVE, OR	RGANIC, N.O.S.
Proper Shipping Name (IATA)	: Flammable solid, corrosive, organic, n.o.	.S.
Proper Shipping Name (ADN)	: FLAMMABLE SOLID, CORROSIVE, OR	RGANIC, N.O.S.
Proper Shipping Name (RID)	: FLAMMABLE SOLID, CORROSIVE, OR	RGANIC, N.O.S.
Transport document description (ADR)	: UN 2925 FLAMMABLE SOLID, CORRO (8), II, (E)	OSIVE, ORGANIC, N.O.S. (SODIUM ETHOXIDE), 4.1
Transport document description (IMDG)	: UN 2925 FLAMMABLE SOLID, CORRO (8), II	OSIVE, ORGANIC, N.O.S. (SODIUM ETHOXIDE), 4.1
Transport document description (IATA)	: UN 2925 Flammable solid, corrosive, or	ganic, n.o.s. (SODIUM ETHOXIDE), 4.1, II
Print date: 09/04/2019	EN (English)	SDS ID: AKS740 5/5

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Transport document description (ADN)	: UN 2925 FLAMMABLE SOLID, CORROSIVE, ORGANIC, N.O.S. (SODIUM ETHOXIDE), 4.1 (8), II
Transport document description (RID)	: UN 2925 FLAMMABLE SOLID, CORROSIVE, ORGANIC, N.O.S. (SODIUM ETHOXIDE), 4.1 (8), II
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 4.1 (8)
Danger labels (ADR)	: 4.1, 8
	,0
IMDG	
Transport hazard class(es) (IMDG)	: 4.1 (8)
Danger labels (IMDG)	: 4.1, 8
	8
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 4.1 (8)
	: 4.1, 8
Hazard labels (IATA)	: 4.1, 8
ADN	
Transport hazard class(es) (ADN)	: 4.1 (8)
Danger labels (ADN)	: 4.1, 8
RID	
Transport hazard class(es) (RID)	: 4.1 (8)
Danger labels (RID)	: 4.1,8
	, •
	8
14.4. Packing group	
Packing group (ADR)	: 11
Packing group (IMDG)	: II
Packing group (IATA)	: II
Packing group (ADN)	: II
Packing group (RID)	: II

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Special provisions (ADN)	: 274		
Classification code (ADN)	: FC1		
Inland waterway transport			
ERG code (IATA)	: 3C		
Special provisions (IATA)	: A3		
CAO max net quantity (IATA)	: 50kg		
CAO packing instructions (IATA)	: 448		
PCA max net quantity (IATA)	: 15kg		
PCA packing instructions (IATA)	: 445		
PCA limited quantity max net quantity (IATA)	: 5kg		
PCA Limited quantities (IATA)	: Y441		
PCA Excepted quantities (IATA)	: E2		
Air transport			
Properties and observations (IMDG)	: Causes burns to skin, eyes	and mucous membranes.	
Stowage and handling (IMDG)	: SW2		
Stowage category (IMDG)	: D		
EmS-No. (Spillage)	: S-G		
EmS-No. (Fire)	: F-A		
Fank special provisions (IMDG)	: TP33		
Tank instructions (IMDG)	: T3		
BC special provisions (IMDG)	: B2		
BC packing instructions (IMDG)	: IBC06		
Packing instructions (IMDG)	: P002		
Excepted quantities (IMDG)	: T Kg : E2		
Limited quantities (IMDG)	: 1 kg		
Special provisions (IMDG)	: 274, 915		
Transport by sea			
EAC code	: 1W		
Tunnel restriction code (ADR)	I E		
	2925		
	48		
Drange plates			
ADR) Hazard identification number (Kemler No.)	: 48		
Special provisions for carriage - Packages	: V11		
Fransport category (ADR)	: 2		
Vehicle for tank carriage	: AT		
Tank code (ADR)	: SGAN		
Portable tank and bulk container special provisions (ADR)	: TP33		
Portable tank and bulk container instructions (ADR)	: T3		
Mixed packing provisions (ADR)	: MP10		
Packing instructions (ADR)	: P002, IBC06		
Excepted quantities (ADR)	: E2		
Limited quantities (ADR)	: 1kg		
Special provisions (ADR)	: 274		
Classification code (ADR)	: FC1		
14.6. Special precautions for user			
	. No supplementary montat		
Other information	: No supplementary informat	an available	
Dangerous for the environment Marine pollutant	: No : No		

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Limited quantities (ADN)	: 1 kg
Excepted quantities (ADN)	: E2
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 1
- Rail transport	
Classification code (RID)	: FC1
Special provisions (RID)	: 274
Limited quantities (RID)	: 1kg
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P002, IBC06
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: ТЗ
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)	: W1
Colis express (express parcels) (RID)	: CE10
Hazard identification number (RID)	: 48

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

SODIUM ETHOXIDE. 95% is not on the REACH Candidate List

SODIUM ETHOXIDE. 95% is not on the REACH Annex XIV List

SODIUM ETHOXIDE. 95% 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.

SODIUM ETHOXIDE. 95% is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

% Volatiles : 75 %

15.1.2. National regulations

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV

Germany

Reference to AwSV

- : Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to VwVwS, Annex 3; ID No. 2542)
- : 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	
No additional information available	

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SECTION 16: Other information

Abbreviations and acronyms:

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor

Other information

Prepared by safety and environmental affairs.

Full text of H- and EUH-statements:

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Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Self-heat. 1	Self-Heating Substances and Mixtures, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H251	Self-heating: may catch fire.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

SDS EU (REACH Annex II) - Custom

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