

MSDS (Material Safety Data Sheet)

Material name	CAS No.	KE No.	UN No.	EU No.
Sodium C14-16 Olefin Sulfonate	68439- 57- 6	KE- 32477		931- 534- 0

1. Chemical Product and Company Identification

a. Product Name ASCO® AOS-35(M)

b. Recommendation & Limit of the product

Recommendation of the product Surface- active agents

Limit the use Do not use for any other purpose

c. Supplier Information

Company Name AK ChemTech Co., Ltd

Adress #1547-95, Chungui- Ro, Cheongsan- Myeon, Chungnam, Korea

Tel +82- 41- 940- 6115

2. Hazards Identification

a. Classification of the substance or mixture

Skin corrosive / irritation 2 category

Serious eye damage / eye irritation 2 category

b. GHS Label elements, including precautionary statements

Pictograms



Signal word Warning

Hazard statements H315 Causes skin irritation.

H319 Causes serious eye damage

Precautionary statements

Prevention P264 Wash hands thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/face protection

Corresponding P302+P352 If on skin, gently wash with plenty of soap and water

P305+P351+P338 IF ON SKIN: Wash with plenty of water/...

P337+P313 If eye irritation persists : Get medical advice/attention.

P310 Immediately call a POISON CENTER/docter/...

P321 Specific treatment is urgen.

P332+P313 Contact a doctor if skin irritation occurs

P362+P364 Take off contaminated clothing and wash before reuse.

Storage

Disposal



c. Other hazards which do not result in classification

Not available.

3. Composition and Information on Ingredients

Composition

Chemical name	Common name and Synonym	CAS No.	%
Sodium C14- 16 Olefin Sulfonate	AOS (Alpha- Olefine sulfonates)	68439- 57- 6	34.0 ~ 38.5
Sodium sulfate		7757- 82- 6	0.0 ~ 1.5
Water		7732- 18- 5	60.0 ~ 66.0

4.	First	Aid	Measures
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a. Eye contact Immediately hold eyelids apart and flush the eye continuously with running water.

Continue flushing until advised to stop by the Poisons Information Center or a doctor,

or for at least 15 minutes

b. Skin contact Immediately flush body and clothes with large amounts of water, using safety shower if

available.

Quickly remove all contaminated clothing, including footwear.

Wash skin and hair with running water.

Continue flushing with water until advised to stop by the Poisons Information Center.

Transport to hospital, or doctor

c. Inhalation If fumes or combustion products are inhaled remove from contaminated area.

Lay patient down. Keep warm and rested.

Prostheses such as false teeth, which may block airway, should be removed, where

possible, prior to initiating first aid procedures.

Apply artificial respiration if not breathing, preferably with a demand valve resuscitator,

bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.

Transport to hospital, or doctor, without delay.

d. Ingestion For advice, contact a Poisons Information Center or a doctor at once

5. Fire and Explosion Data

a. Flammability of the Product
b. Auto- Ignition Temperature
c. Flash Points
d. Flammable Limits
Not available.

e. Products of Combustion These products are carbon oxides (CO, CO2), sulfur oxides (SO2, SO3...).

f. Fire Hazards in Presence of Various Slightly flammable to flammable in presence of heat.

Substances

g. Explosion Hazards in Presence of Various Risks of explosion of the product in presence of mechanical impact: Not available.

Substances Slightly explosive in presence of open

flames and sparks

h. Fire Fighting Media and Instructions SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam.

Do not use water jet

i. Special Remarks on Fire Hazards When heated to decomposition it emits toxic fumes of sulfur oxides, and sodium oxide

j. Special Remarks on Explosion Hazards Not available.



6. Accidental Release Measures

a. Small Spill Remove all ignition sources.

Clean up all spills immediately. Avoid contact with skin and eyes.

Control personal contact by using protective equipment. Use dry clean up procedures and avoid generating dust. Place in a suitable labelled container for waste disposal.

b. Large Spill Clear area of personnel and move upwind.

Alert Emergency Responders and tell them location and nature of hazard.

Wear full body protective clothing with breathing apparatus.

Prevent, by any means available, spillage from entering drains or water course.

Consider evacuation.

Stop leak if safe to do so.

Contain spill with sand, earth or vermiculite.

Collect recoverable product into labeled containers for recycling.

Neutralize/decontaminate residue.

Collect solid residues and seal in labeled drums for disposal.

Wash area and prevent runoff into drains.

After clean up operations, decontaminate and launder all protective clothing and

equipment before storing and re-using.

If contamination of drains or waterways occurs, advise emergency services

7. Handling and Storage

high temperature condition.

Use material after melting evenly, in case material is frozen in winter.

Do not open drums when melting material.

When melting material, proceed within 48 hours at no higher than 50 derees. Avoid direct contact of a heater with drums or materials when melting material.

 b. Conditions for safe storage (including incompatibilities) Store and handle in accordance with all current regulations. Store in cool place. Keep containers dry and well-ventilated place. Minimize temperature change. Optical storage temperature is 15 \sim 30 °C.

Keep material separated from incompatible substances.

8. Exposure Controls/Personal Protection

airborne levels below recommended

exposure limits. If user operations generate dust, fume or mist, use ventilation to keep

exposure to airborne contaminants

below the exposure limit.

b. Personal Protection Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified

respirator or equivalent. Gloves

c. Personal Protection in Case of a Large Spill Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing

apparatus should be used to avoid

inhalation of the product. Suggested protective clothing might not be sufficient; consult

a specialist BEFORE handling this

product

d. Exposure Limits Not available

9. Physical and Chemical Properties

a. Appearance Liquid b. Color Yellow c. Odor Not available

d. pH 11.5 ~ 13.5 (at 25°C)

e. Melting point Not available f. Boiling point Not available Not available g. Flash point h. Evaporation Rate Not available i. Flammable Not available j. Upper Explosive Limit Not available Not available k. Vapour Pressure (mmHG) I. Solubility in water (g/L) 400000 mg/ℓ (25°C) Not available m. Relative Vapor Density (air=1) Not available n. Specific Gravity (water=1) o. Water partition coefficient Not available Not available p. Auto-ignition temperature q. Decomposition Temp Not available Not available r. Viscosity

308 s. Molecular Weight

10. Stability and Reactivity Data

a. Stability The product is stable

b. Instability Temperature Not available

c. Conditions of Instability Excess heat, dust generation, incompatible materials

d. Incompatibility with various substances Reactive with oxidizing agents e. Corrosivity Non-corrosive in presence of glass

f. Special Remarks on Reactivity Not available g. Special Remarks on Corrosivity Not available h. Polymerization Will not occur

11. Toxicological Information

a. Routes of Entry Not available

Oral : LD50 > 2000 mg/kg Rat b. Toxicity to Animals

Dermal : LD50 6300- 13500 mg/kg Rabbit

c. Chronic Effects on Humans Not available d. Other Toxic Effects on Humans Not available

e. Special Remarks on Toxicity to Animals Hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Slightly hazardous in case of skin contact (sensitizer)

f. Special Remarks on Chronic Effects on May cause adverse reproductive effects based on animal test data.

Humans

No human data found.

g. Special Remarks on other Toxic Effects on Eyes: Causes moderate eye irritation.

Humans

Inhalation: Material is irritating to mucous membranes and upper respiratory tract.

May cause allergic respiratory reaction.

Ingestion: Causes gastrointestinal tract irritation with nausea, vomiting, hypermotility,

diarrhea, and bloating.

May also affect behavior (ataxia, somnolence), and cardiovascular system.

Chronic Potential Health Effects:

Skin: Prolonged or repeated skin contact may cause allergic dermatitis.

Ingestion: Prolonged or repeated ingestion may affect the liver.

Inhalation: Prolonged or repeated inhalation may cause allergic respiratory reaction

(asthma).

12. Ecological Information

a. Ecotoxicity LC50 1-10 mg/ ℓ 96 hr Brachydanio rerio (Fish)

b. BOD5 and COD
c. Products of Biodegradation
d. Toxicity of the Products of Biodegradation
Not available

e. Special Remarks on the Products of

Biodegradation

Condenasability: BCF 70.79

13. Disposal Considerations

a. Waste Disposal Waste must be disposed of in accordance with federal, state and local environmental

control regulations

b. Disposal Considerations Dispose of contents in accordance with applicable laws

14. Transport Information

a. UN number
b. Shipping Name
c. Dangerous goods class
d. Packing group
e. Marine pollutant
Not available
Not available

f. Special safety measures

In case of fire emergency Not available
In case of spill emergency Not available

15. Other Regulatory Information

a. Federal and State Regulations
 b. Other Regulations
 c. Other Classifications
 Not available
 Not available

16. Other Information

a. References International Uniform Chemical Information Database(IUCLID)(http://ecb.jrc.it/esis)(성상)

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(Solubility)

Quantitative Structure Activity Relation(QSAR)

International Uniform ChemicaL Information Database(IUCLID)(http://ecb.jrc.it/esis)(Oral)

OECD Screening Information Data Set(http://cs3-hq.oecd.org/scripts/hpv/)(Dermal)

International Uniform ChemicaL Information Database(IUCLID)(http://ecb.jrc.it/esis)

(Skin corrosive/skin irritation)

 $International\ Uniform\ ChemicaL\ Information\ Database (IUCLID) (\underline{http://ecb.jrc.it/esis})$

(Serious eye damage/eye irritation)

International Uniform Chemical Information Database(IUCLID)(http://ecb.jrc.it/esis) International Uniform Chemical Information Database(IUCLID)(http://ecb.jrc.it/esis)

SIDS(Fish)

The ECOTOXicology database (ECOTOX)(http://cfpub.epa.gov/ECOTOX/quick_query.htm)

(Crustacea)

Quantitative Structure Activity Relation(QSAR)(Persistence)
Quantitative Structure Activity Relation(QSAR)(Condenasability)

IUCLID(Biodegradation)

b. Other Special Considerations
c. Created
d. Last Updated
2012- 12- 08
2021- 01- 27

Our data and the MSDS is written, provided by the Korea Occupational Safety and Health Agency with reference to the MSDS edit, modify some data.