

SAFETY DATA SHEET

AS-5 ANTI-SLUDGING AGENT

Revision Date: 09-Apr-2013

Revision Number: 18

1. Product and Company Identification

Product Name**Product Trade Name:** AS-5 ANTI-SLUDGING AGENT**Other Names****Synonyms:** None
Product Code: HM000078**Recommended Use****Recommended Use** Anti-sludging Agent
Uses Advised Against No information available**Company Name, Address and Contact Details****Manufacturer/Supplier** Halliburton New Zealand
1 Paraite Rd,
Bell Block, New Plymouth
New Zealand Registration No.: 824207**E-Mail address:** fdunexchem@halliburton.com**Emergency Telephone Number** +64-6-7559274**New Zealand National Poisons Centre** 0800 764 766 (24 hours)

2. Hazard(s) Identification

Statement of Hazardous Nature

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulation 2001; Classified as dangerous good according to NZS 5433:2012, UN, IMDG or IATA

Classification**HSNO Classification** 3.1C Flammable Liquids - Medium hazard
6.1D (Oral) Acutely Toxic Substances
6.3A Irritating to the skin
8.3A Corrosive to ocular tissue
9.1D Slightly harmful in the aquatic environment
9.3C Harmful to terrestrial vertebrates**Hazard and Precautionary Statements**

2. Hazard(s) Identification

Hazard Pictograms



Signal Word

Danger

Hazard Statements

H226 - Flammable liquid and vapor
H302 - Harmful if swallowed
H315 - Causes skin irritation
H318 - Causes serious eye damage
H401 - Toxic to aquatic life
H433 - Harmful to the terrestrial vertebrates.

Precautionary Statements

Prevention

P102 - Keep out of reach of children
P103 - Read label before use
P104 - Read Safety Data Sheet before use.
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P233 - Keep container tightly closed
P240 - Ground/Bond container and receiving equipment
P241 - Use explosion-proof electrical/ventilating/lighting/equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P280 - Wear protective gloves/eye protection/face protection

Response

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P370 + P378 - In case of fire: Use water spray for extinction
P301+ P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P330 - Rinse mouth
P331 - Do NOT induce vomiting
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
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

Storage

P403 + P235 - Store in a well-ventilated place. Keep cool

Disposal

P501 - Dispose of contents/container to an approved incineration plant

Contains

2. Hazard(s) Identification

Substances	CAS Number	Substance HSNO Classification
Dodecylbenzene sulfonic acid	27176-87-0	6.1D (oral) 6.3A 8.3A 9.1D 9.3C
Isopropanol	67-63-0	3.1B 6.1E (oral) 6.3B 6.4A

Other Hazards

None known

3. Composition and Information on Ingredients

Substances	CAS Number	PERCENT
Dodecylbenzene sulfonic acid	27176-87-0	60 - 100%
Isopropanol	67-63-0	10 - 30%

4. First-Aid Measures

Requirements for First Aid or Medical Care

Inhalation	If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.
Eyes	In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.
Skin	In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse.
Ingestion	Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Workplace Facilities Required

None

Relation to Health Effect

Most Important Symptoms/Effects

May cause eye burns. May cause skin and respiratory irritation. May cause headache, dizziness, and other central nervous system effects. May cause allergic skin reaction.

Medical Attention and Special Treatment

Notes to Physician

Treat symptomatically

5. Fire-Fighting Measures

Type of Hazard

Flammability Hazard

Flammable Liquid

5. Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must not be used for safety reasons

None known.

HAZCHEM Code

Hazchem Code: 2[Y]E

Special Protective Equipment and Precautions for Fire Fighters

Special Protective Equipment for Fire-Fighters

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

Special Exposure Hazards

May be ignited by heat, sparks or flames. Closed containers may explode in fire. Use water spray to cool fire exposed surfaces. Decomposition in fire may produce toxic gases.

6. Spillage, Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. Wear self-contained breathing apparatus in enclosed areas. See Section 12 for additional information

Environmental precautions

Prevent from entering sewers, waterways, or low areas.

Methods and material for containment and cleaning up

Isolate spill and stop leak where safe. Remove ignition sources and work with non-sparking tools. Contain spill with sand or other inert materials. Scoop up and remove.

Reference to other sections

See Section 12 for additional information.

7. Handling and Storage

Precautions for Safe Handling

Handling Precautions

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing before reuse. Ground and bond containers when transferring from one container to another.

Handling Practices

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

Approved Handlers

This product does NOT require an approved handler.

Conditions for safe storage, including any incompatibilities

Store in a well ventilated area. Keep container closed when not in use. Store away from alkalis. Store away from oxidizers. Keep from heat, sparks, and open flames. Product has a shelf life of 24 months. Store locked up.

7. Handling and Storage

Product is incompatible with: Class 1 (explosives)
 Class 2 (flammable gases, aerosols)
 Class 3.2 (liquid desensitised explosives)
 Class 4 (readily combustible, self-reactive, solid desensitised explosives, spontaneously combustible, dangerous when wet)
 Class 5 (oxidisers, organic peroxides)

Store Site Requirements

No special controls required

Packaging

No special packaging required

8. Exposure Controls and Personal Protection

Workplace Exposure Standards

Substances	CAS Number	New Zealand WES	ACGIH TLV-TWA
Dodecylbenzene sulfonic acid	27176-87-0	Not applicable	Not applicable
Isopropanol	67-63-0	400 ppm	TWA: 200 ppm STEL: 400 ppm

Engineering Controls

Engineering Controls

Use in a well ventilated area. Local exhaust ventilation should be used in areas without good cross ventilation.

Personal Protective Equipment (PPE)

Respiratory Protection Hand Protection Skin Protection Eye Protection Other Precautions Hygiene Measures	Organic vapor/acid gas respirator with a dust/mist filter. Impervious rubber gloves. Rubber apron. Chemical goggles; also wear a face shield if splashing hazard exists. Eyewash fountains and safety showers must be easily accessible. Handle in accordance with good industrial hygiene and safety practice
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9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State: Liquid
Odor: Alcohol

Color: Dark brown
Odor Threshold: No information available

Property
Remarks/ Method

Values

pH:
Melting Point/Range
Freezing Point/Range (C):
Boiling Point/Range
Flash Point
PMCC
Evaporation rate
Vapor Pressure
Vapor Density
Specific Gravity
Water Solubility
Solubility in other solvents

1
 No data available
 No data available
 No data available
 35°C
 No data available
 No data available
 No data available
 1.03
 Soluble in water
 No data available

9. Physical and Chemical Properties

Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Explosive Properties	No information available
Oxidizing Properties	No information available

Other information

VOC Content (%)	No data available
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10. Stability and Reactivity

Chemical Stability

Stable

Conditions to Avoid

Keep away from heat, sparks and flame.

Incompatible Materials

Strong oxidizers. Strong alkalis.

Product is incompatible with: Class 1 (explosives)
Class 2 (flammable gases, aerosols)
Class 3.2 (liquid desensitised explosives)
Class 4 (readily combustible, self-reactive, solid desensitised explosives, spontaneously combustible, dangerous when wet)
Class 5 (oxidisers, organic peroxides)

Hazardous Decomposition Products

Oxides of sulfur. Carbon monoxide and carbon dioxide.

Hazardous Reactions

Hazardous Polymerization: Will Not Occur

11. Toxicological Information

Health Effect from Likely Routes of Exposure

Acute Toxicity

Product Information	Under certain conditions of use, some of the product ingredients may cause the following:
Inhalation	Causes severe respiratory irritation. May cause central nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.
Eye Contact	May cause eye burns.
Skin Contact	Causes severe burns. May cause an allergic skin reaction. May be absorbed through the skin and produce effects similar to those caused by inhalation and/or ingestion.
Ingestion	Causes burns of the mouth, throat and stomach. May cause central nervous system depression including headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue blurred vision, slurred speech, giddiness, tremors and convulsions.

Chronic Effects/Carcinogenicity Repeated overexposure may cause liver and kidney effects.

Toxicity Data

11. Toxicological Information

Substances	LD50 Oral	LD50 Dermal	LC50 Inhalation
Dodecylbenzene sulfonic acid	500 mg/kg; 404-1470 mg/kg	No data available	No data available
Isopropanol	4396 mg/kg; 3,600 mg/kg	12800 mg/kg (Rat) 12870 mg/kg (Rabbit)	72.6 mg/L (Rat) 4 h

12. Ecological Information

Toxicity Ecotoxicity Effects

Substances	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Dodecylbenzene sulfonic acid	EC50: 29 mg/L (Pseudokirchneriella subcapitata)	LC50: 10.8 mg/L (Oncorhynchus mykiss); LC50: 3.5 - 10 mg/L (Brachydanio rerio); LC50: 1 mg/L (Gadus morhua)	LC50: 0.9 mg/L (Microcystis)	EC50: 5.88 mg/L (Daphnia magna)
Isopropanol	EC50: > 1000 mg/l (Desmodesmus subspicatus)	LC50: 9640 mg/l (Pimephales promelas)	No information available	EC50: 13299 mg/l (Daphnia magna)

Persistence and degradability

Product is biodegradable

Bioaccumulative potential

Does not bioaccumulate

Mobility in soil

No information available

Ecotoxicity Hazard Statements

Toxic to aquatic life

Harmful to terrestrial vertebrates.

Other adverse effects

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

13. Disposal Considerations

Waste treatment methods

Disposal Method

Incineration recommended in approved incinerator according to federal, state, and local regulations. Substance should NOT be deposited into a sewage facility.

Contaminated Packaging

Contaminated packaging may be disposed of by: rendering packaging incapable of containing any substance, or treating packaging to remove residual contents, or treating packaging to make sure the residual contents are no longer hazardous, or by disposing of packaging into commercial waste collection.

14. Transport Information

IMDG/IMO

UN Number:

UN2924,

UN Proper Shipping Name: Flammable Liquid, Corrosive, N.O.S.

14. Transport Information

Transport Hazard , 3, (8)
Class(es):
Packing Group: , III
EMS: EmS F-E, S-C

NZ 5433.1999

UN Number: UN2924,
UN Proper Shipping Name: Flammable Liquid, Corrosive, N.O.S.
Transport Hazard , 3, (8)
Class(es):
Packing Group: , III

IATA/ICAO

UN Number: UN2924,
UN Proper Shipping Name: Flammable Liquid, Corrosive, N.O.S.
Transport Hazard , 3, (8)
Class(es):
Packing Group: , III

Special Precautions for User None

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

15. Regulatory Information

New Zealand Inventory of Chemicals All components listed on inventory or are exempt.

HSNO Approval Number HSR002495

Group Name Additives, Process Chemicals and Raw Materials (Flammable HSR002495)

HSNO Controls Refer to the NZ EPA website for more information: <http://www.epa.govt.nz>

Approved Handlers This product does NOT require an approved handler.

Poisons Schedule: None Allocated

16. Other Information

The following sections have been revised since the last issue of this SDS

Not applicable

Additional Information For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Safety Data Sheet for this or other Halliburton products, contact Chemical Compliance at 1-580-251-4335.

Key literature references and sources for data

www.ChemADVISOR.com/
NZ CCID

Revision Date: 09-Apr-2013
Revision Note Not applicable

Disclaimer Statement

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End of Safety Data Sheet