HALLIBURTON

SAFETY DATA SHEET

HII-500M CORROSION INHIBITOR INTENSIFIER

Revision Date: 10-Aug-2015 **Revision Number:** 29

1. Product and Company Identification

Product Name
Product Trade Name: HII-500M CORROSION INHIBITOR INTENSIFIER

Other Names
Synonyms: None
Product Code: HM000858

Recommended Use
Recommended Use Intensifier
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; Not Classified as dangerous good according to NZS 5433:2012, UN, IMDG or IATA

Classification
6.1D (Oral) Acutely Toxic Substances
6.1D (Inhalation) Acutely Toxic Substances
6.4A Irritating to the eye
6.9A Toxic to human target organs or systems
9.1B Ecotoxic in the aquatic environment
9.3C Harmful to terrestrial vertebrates

Hazard and Precautionary Statements

Hazard Pictograms

Signal Word Danger

Hazard Statements

H372 - Causes damage to organs through prolonged or repeated exposure if swallowed
H302 - Harmful if swallowed
H332 - Harmful if inhaled
H319 - Causes serious eye irritation
H411 - Toxic to aquatic life with long lasting effects
H433 - Harmful to the terrestrial vertebrates.

Precautionary Statements

Prevention

P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children
P103 - Read label before use
P104 - Read Safety Data Sheet before use.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear eye protection/face protection

Response

P301+ P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P330 - Rinse mouth
P331 - Do NOT induce vomiting
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P312 - Call a POISON CENTER or doctor/physician if you feel unwell
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention
P314 - Get medical attention/advice if you feel unwell
P391 - Collect spillage

Storage None

Disposal P501 - Dispose of contents/container to an approved waste disposal plant

Contains

Substances	CAS Number	Substance HSNO Classification
Antimonate salt	Proprietary	6.1D (Oral) 6.1D (Inhalation) 9.1B
Ethylene glycol	107-21-1	6.1D (Oral) 6.4A 6.9A (Oral) 9.3C

2.3. Other Hazards

None known

3. Composition and Information on Ingredients

Substances	CAS Number	PERCENT (w/w)
Antimonate salt	Proprietary	30 - 60%
Ethylene glycol	107-21-1	30 - 60%

4. First-Aid Measures

Requirements for First Aid or Medical Care

Inhalation If inhaled, move victim to fresh air and seek 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.

Ingestion Do NOT induce vomiting. Give nothing by mouth. Obtain immediate medical attention.

Workplace Facilities Required

None

Relation to Health Effect

Most Important Symptoms/Effects

Harmful if swallowed. Harmful if inhaled. Prolonged or repeated exposure may cause damage to organs.

Medical Attention and Special Treatment

Notes to Physician

Treat symptomatically

5. Fire-fighting measures

Type of Hazard

Flammability Hazard

Non-flammable

5.1. 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: None Allocated

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

Use water spray to cool fire exposed surfaces. Closed containers may explode in fire. Decomposition in fire may produce harmful gases.

6. Spillage, Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment.
See Section 8 for additional information

6.2. Environmental precautions

Prevent from entering sewers, waterways, or low areas.

6.3. Methods and material for containment and cleaning up

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Neutralize to pH of 6-8. Scoop up and remove.

6.4. Reference to other sections

See Section 8 and 13 for additional information.

7. Handling and storage

7.1. Precautions for Safe Handling

Handling Precautions

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors.

Handling Practices

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

Approved Handlers

This product does NOT require an approved handler.

7.2. Conditions for safe storage, including any incompatibilities

Store away from acids. Store in a cool, dry location. Keep container closed when not in use. Product has a shelf life of 24 months.

Store Site Requirements

No special controls required

Packaging

No special packaging required

8. Exposure Controls and Personal Protection

Workplace Exposure Standards

Exposure Limits

Substances	CAS Number	New Zealand WES	ACGIH TLV-TWA
Antimonate salt	Proprietary	0.5 mg/m^3	0.5 mg/m^3
Ethylene glycol	107-21-1	Not applicable	Ceiling: 100 mg/m^3 (aerosol only)

Engineering Controls

Engineering Controls Use in a well ventilated area.

Personal Protective Equipment (PPE)

Personal Protective Equipment If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.

Respiratory Protection Organic vapor respirator with a dust/mist filter. (A2P2/P3)

Hand Protection Chemical-resistant protective gloves (EN 374) Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Nitrile gloves. (>= 0.4 mm thickness)
This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced. Manufacturer's directions for use should be observed because of great diversity of types.

Skin Protection Normal work coveralls.

Eye Protection Chemical goggles; also wear a face shield if splashing hazard exists.

Other Precautions None known.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid **Color:** Light yellow

Odor: Odorless **Odor Threshold:** No information available

Property	Values	Remarks/ - Method

pH:	11
Freezing Point/Range	-7 - -9 °C
Melting Point/Range	No data available
Boiling Point/Range	> 100 °C /
Flash Point	> 93 °C / PMCC
lower flammability limit	
Evaporation rate	< 1
Vapor Pressure	< 20 mmHg
Vapor Density	> 1
Specific Gravity	1.42
Water Solubility	Soluble in water
Solubility in other solvents	No data available
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

9.2. Other information

VOC Content (%) No data available

10. Stability and Reactivity

10.2. Chemical Stability

Stable

10.4. Conditions to Avoid

Temperature over 200 F (93 C).

10.5. Incompatible Materials

Strong acids. Prolonged contact with aluminum.

10.6. Hazardous Decomposition Products

Carbon monoxide and carbon dioxide. Metal oxides.

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	Vapors given off by heated product may be harmful. May cause central nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.
Eye Contact	May cause mild eye irritation.
Skin Contact	May cause mild skin irritation. May be absorbed through the skin and contribute to the symptoms listed under ingestion.
Ingestion	Harmful if swallowed. May cause abdominal pain, vomiting, nausea, and diarrhea. May cause liver and kidney damage. May affect the heart and cardiovascular system. May cause headache, dizziness, nausea, vomiting, gastrointestinal irritation and central nervous system depression.
Chronic Effects/Carcinogenicity	May cause birth defects. Prolonged or repeated exposure may also cause heart and lung damage. Prolonged or repeated exposure may cause liver, kidney and blood effects.

Toxicity Data

Toxicology data for the components

Substances	CAS Number	**LD50 Oral**	**LD50 Dermal**	**LC50 Inhalation**
Antimonate salt	Proprietary	No data available	No data available	No data available
Ethylene glycol	107-21-1	4000 mg/kg (Rat) 7712 mg/kg (Rat) > 10000 mg/kg (Rat) 1670 mg/kg (Cat) 1400 – 1600 mg/kg (Human)	9530 µL/kg (Rabbit) > 3500 mg/kg (Mouse)	> 2.5 mg/L (Rat) 6h (saturated concentration)

Substances	**CAS Number**	**Skin corrosion/irritation**
Antimonate salt		No information available.
Ethylene glycol	107-21-1	Non-irritating to the skin (Rabbit)

Substances	**CAS Number**	**Eye damage/irritation**
Antimonate salt		No information available.
Ethylene glycol	107-21-1	Non-irritating to the eye (Rabbit)

Substances	**CAS Number**	**Skin Sensitization**
Antimonate salt		No information available
Ethylene glycol	107-21-1	Did not cause sensitization on laboratory animals (guinea pig) Patch test on human volunteers did not demonstrate sensitization properties

Substances	**CAS Number**	**Respiratory Sensitization**
Antimonate salt		No information available
Ethylene glycol	107-21-1	No information available

Substances	**CAS Number**	**Mutagenic Effects**
Antimonate salt		No data of sufficient quality are available.
Ethylene glycol	107-21-1	In vitro tests did not show mutagenic effects. In vivo tests did not show mutagenic effects.

Substances	**CAS Number**	**Carcinogenic Effects**
Antimonate salt		No information available.
Ethylene glycol	107-21-1	Did not show carcinogenic effects in animal experiments

Substances	**CAS Number**	**Reproductive toxicity**
Antimonate salt		No information available
Ethylene glycol	107-21-1	Fetotoxic and teratogenic effects observed in experimental animals at concentrations that did not produce maternal toxicity.

Substances	**CAS Number**	**STOT - single exposure**
Antimonate salt		No information available
Ethylene glycol	107-21-1	No significant toxicity observed in animal studies at concentration requiring classification.

Substances	**CAS Number**	**STOT - repeated exposure**
Antimonate salt		No information available
Ethylene glycol	107-21-1	Causes damage to organs through prolonged or repeated exposure: (Kidney)

Substances	**CAS Number**	**Aspiration hazard**
Antimonate salt		No information available
Ethylene glycol	107-21-1	No information available

12. Ecological Information

12.1. Toxicity

Ecotoxicity Effects

Product Ecotoxicity Data

No data available

Substance Ecotoxicity Data

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Antimonate salt	Proprietary	No information available	No information available	No information available	No information available
Ethylene glycol	107-21-1	EC50 6500 - 13000 mg/L (Pseudokirchneriella subcapitata) TGK (8d) > 10000 mg/L (Scenedesmus quadricauda)	LC50 41000 mg/L (Oncorhynchus mykiss) LC50 (96h) 72860 mg/L (Pimephales promelas) NOEC (7d) 15380 mg/L (mortality) (Pimephales promelas)	TTC (16h) > 10000 mg/L (Pseudomonas putida) EC20 (30 m) > 1995 mg/L (activated sludge, domestic) (similar substance)	EC50 46300 mg/L (Daphnia magna) EC50 (48h) >100 mg/L (Daphnia magna) NOEC (7d) 8590 mg/L (reproduction) (Ceriodaphnia dubia)

12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Antimonate salt	Proprietary	
Ethylene glycol	107-21-1	Readily biodegradable (100% @ 10d)

12.3. Bioaccumulative potential

Substances	CAS Number	Log Pow
Antimonate salt	Proprietary	No data available
Ethylene glycol	107-21-1	-1.36

12.4. Mobility in soil

Substances	CAS Number	Mobility
Antimonate salt	Proprietary	No information available
Ethylene glycol	107-21-1	No information available

Ecotoxicity Hazard Statements
Toxic to aquatic life
Harmful to terrestrial vertebrates.

12.6. Other adverse effects
Endocrine Disruptor Information
This product does not contain any known or suspected endocrine disruptors

13. Disposal Considerations

13.1. Waste treatment methods

Disposal Method Disposal should be made in accordance with federal, state, and local regulations. Substance should NOT be deposited into a sewage facility.

Contaminated Packaging Follow all applicable national or local regulations. 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: UN3082
UN Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Antimonate Salt)
Transport Hazard Class(es): 9
Packing Group: III
Environmental Hazards: Marine Pollutant
EMS: EmS F-A, S-F

NZ 5433.1999

UN Number: UN3082
UN Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Antimonate Salt)
Transport Hazard Class(es): 9
Packing Group: III

IATA/ICAO

UN Number:	UN3082
UN Proper Shipping Name:	Environmentally Hazardous Substance, Liquid, N.O.S. (Antimonate Salt)
Transport Hazard Class(es):	9
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	HSR002549
Group Name	Corrosive Inhibitor (Subsidiary hazard HSR002549)
HSNO Controls	Refer to the NZ EPA website for more information: http://www.epa.govt.nz
Approved Handlers	Not Applicable
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 Stewardship at 1-580-251-4335.

Key literature references and sources for data
www.ChemADVISOR.com/
NZ CCID
CCRIS
ECHA C&L

Revision Date: 10-Aug-2015
Revision Note Revision Note
SDS sections updated:
2

Disclaimer Statement
This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

End of Safety Data Sheet