Material Safety Data Sheet

ALPHA 3385

1. Product and Company Identification

Material name	**ALPHA 3385**
Patent Number	Not available
Revision date	March-04-2010
Version No.	6
CAS #	Mixture
Product use	Corrosion Inhibitor
Manufacturer information	Clearwater™ International L.L.C. 4420 South Flores Road Elmendorf, TX 78112 US CHEMTREC 1-800-424-9300/703-527-3887
Emergency	CHEMTREC 1-800-424-9300/703-527-3887
Supplier information	Clearwater™ International L.L.C. 4420 South Flores Rd. Elmendorf, TX 78112 US
Supplier emergency telephone number(s)	CHEMTREC 1-800-424-9300 CHEMTREC INT'L 001-703-527-3887

2. Hazards Identification

Emergency overview	WARNING Combustible liquid and vapor. Contact with skin may cause irritation. May be ignited by heat, sparks or flames. Harmful in contact with eyes. Cancer hazard. Irritating to skin. Irritating to respiratory system. Prolonged exposure may cause chronic effects. Contact with eyes may cause irritation. Components of the product may be absorbed into the body by inhalation, ingestion and through the skin.
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Routes of exposure	Inhalation. Skin contact.
Eyes	Eye contact may result in corneal injury. Contact with eyes may cause irritation. Do not get this material in contact with eyes.
Skin	Irritating to skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Do not get this material in contact with skin. Contact with skin may cause irritation.
Inhalation	Irritating to respiratory system. May cause cancer by inhalation. Do not breathe dust/fume/gas/mist/vapors/spray.

Ingestion	Do not ingest. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Components of the product may be absorbed into the body by ingestion.
Target organs	Kidney. Blood. Central nervous system. Eyes. Liver. Skin.
Chronic effects	Unconsciousness. Conjunctiva. Edema. Jaundice. Cyanosis. Liver injury may occur. Kidney injury may occur. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Prolonged skin contact may defat the skin and produce dermatitis.
Signs and symptoms	Unconsciousness. Corneal damage. Decrease in motor functions. Behavioral changes. Edema. Liver enlargement. Conjunctivitis. Proteinuria. Defatting of the skin. Rash. Irritation.
Potential environmental effects	Components of this product are hazardous to aquatic life. May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Solvent Naptha (Petroleum), petroleum aromatic	64742-94-5	65 - 100
Poly(oxy-1,2-ethanediyl), a-(nonylphenyl)-w-hydroxy-, phosphate	51811-79-1	30 - 60
Naphthalene	91-20-3	3 - 7

4. First Aid Measures

First aid procedures

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention immediately.
Skin contact	Immediately flush skin with plenty of water. Remove and isolate contaminated clothing and shoes. Get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.
Inhalation	Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately.
Ingestion	Rinse mouth. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention immediately.
Notes to physician	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General advice	Take off contaminated clothing and shoes immediately. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Get medical attention if symptoms occur. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties	Combustible by OSHA criteria. Containers may explode when heated. Runoff to sewer may cause fire or explosion hazard.

Extinguishing media

Suitable extinguishing media	Water. Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Protection of firefighters	
Specific hazards arising from the chemical	Fire may produce irritating, corrosive and/or toxic gases.
Protective equipment and precautions for firefighters	In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Move containers from fire area if you can do it without risk. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

6. Accidental Release Measures

Personal precautions	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away. Stay upwind. Keep out of low areas.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water.
Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Should not be released into the environment. Large Spills: Dike far ahead of liquid spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. After removal flush contaminated area thoroughly with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly. Never return spills in original containers for re-use.

7. Handling and Storage

Handling	Do not handle or store near an open flame, heat or other sources of ignition. All equipment used when handling the product must be grounded. Do not breathe vapors or spray mist. Use only with adequate ventilation. Wear personal protective equipment. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid release to the environment. Wash thoroughly after handling. Avoid prolonged exposure.

Storage Keep containers tightly closed in a cool, well-ventilated place. The pressure in sealed containers can increase under the influence of heat. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Keep this material away from food, drink and animal feed. Keep out of the reach of children. Use care in handling/storage. Store in accordance with local/regional/national/international regulation.

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

Components	CAS #	TWA	STEL	Ceiling
Naphthalene	91-20-3	10 ppm	15 ppm	Not established

OSHA

Components	CAS #	TWA	STEL	Ceiling
Naphthalene	91-20-3	10 ppm	Not established	Not established

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye / face protection Wear safety glasses with side shields. Wear chemical goggles.

Skin protection Protective gloves. Wear suitable protective clothing. Closed-toe shoes recommended.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. If exposure may or does exceed occupational exposure limits use a NIOSH-approved respirator to prevent overexposure.

General hygeine considerations Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not get this material on clothing. Wash hands before breaks and immediately after handling the product. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance Viscous.

Color amber - dark brown.

Odor hydrocarbon-like

Odor threshold Not available

Physical state Liquid.

Form Liquid.

pH 5 - 6.5

Melting point Not available

Freezing point Not available

Boiling point 226.4 °F (108 °C) estimated

Flash point 171 °F (77.2 °C)

Evaporation rate Not available

Flammability Not available.

Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	0.95 - 1
Relative density	0.9749 g/cm3 estimated
Solubility (water)	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	597.2 °F (314 °C) estimated
Decomposition temperature	Not available

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Oxidizing agents.
Possibility of hazardous reactions	Will not occur under normal conditions.

11. Toxicological Information

Acute effects

Acute LD50: 8954 mg/kg estimated, Rat, Oral
Acute LC50: 1070 mg/l/4h estimated, Rat, Inhalation

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

Naphthalene	91-20-3	Inhalation LC50 Rat: >340 mg/m3/1H; Oral LD50 Rat:490 mg/kg; Dermal LD50 Rat:>2500 mg/kg; Dermal LD50 Rabbit:>20 g/kg
Solvent Naptha (Petroleum), petroleum aromatic	64742-94-5	Inhalation LC50 Rat: 590 mg/m3/4H; Oral LD50 Rat: 7050 mg/kg; Dermal LD50 Rabbit: 2 mL/kg

Sensitization Not expected to be hazardous by OSHA criteria.

Local effects Contact may irritate or burn eyes. Liver toxicity. Blood disorder may occur after ingestion. Irritating to skin. Irritating to respiratory system. Components of the product may be absorbed into the body through the skin.

Chronic effects Hazardous by OSHA criteria. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged exposure may cause chronic effects.

Subchronic effects Kidney injury may occur. Blood disorder may occur after ingestion. Blood disorder may occur after prolonged inhalation. Blood disorder may occur after prolonged skin contact.

Carcinogenicity Hazardous by OSHA criteria.

ACGIH - Threshold Limit Values - Carcinogens

Naphthalene	91-20-3	A4 - Not Classifiable as a Human Carcinogen

NTP (National Toxicology Program) - Report on Carcinogens - Reasonably Anticipated to be Human Carcinogens

Naphthalene	91-20-3	Reasonably Anticipated To Be A Human Carcinogen

Neurological effects Hazardous by OSHA criteria.

Epidemiology Hazardous by OSHA criteria.

Further information Symptoms may be delayed.

12. Ecological Information

Ecotoxicity

LC50 31.01 mg/L estimated, Fish, 96.00 Hours,
EC50 1.72 mg/L estimated, Daphnia, 48.00 Hours,
IC50 5.44 mg/L estimated, Algae, 72.00 Hours,

Ecotoxicity - Freshwater Algae Data

Naphthalene	91-20-3	96 Hr EC50 Skeletonema costatum: 0.4 mg/L
Solvent Naptha (Petroleum), petroleum aromatic	64742-94-5	72 Hr EC50 Skeletonema costatum: 2.5 mg/L

Ecotoxicity - Freshwater Fish Species Data

Naphthalene	91-20-3	96 Hr LC50 Pimephales promelas: 6.14 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 1.60 mg/L [flow-through] (juvenile); 96 Hr LC50 Pimephales promelas: 6.08 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 1.99 mg/L [static]
Solvent Naptha (Petroleum), petroleum aromatic	64742-94-5	96 Hr LC50 Pimephales promelas: 19 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 2.34 mg/L; 96 Hr LC50 Lepomis macrochirus: 1740 mg/L [static]

Ecotoxicity - Microtox Data

Naphthalene	91-20-3	30 min EC50 Photobacterium phosphoreum: 0.93 mg/L; 18 Hr EC50 Pseudomonas putida: >20 mg/L

Ecotoxicity - Water Flea Data

Naphthalene	91-20-3	48 Hr EC50 water flea: 2.16 mg/L
Solvent Naptha (Petroleum), petroleum aromatic	64742-94-5	48 Hr EC50 Daphnia magna: 0.95 mg/L

Environmental effects

Harmful to aquatic life.

Ecotoxicity - Freshwater Algae Data

Naphthalene	91-20-3	96 Hr EC50 Skeletonema costatum: 0.4 mg/L
Solvent Naptha (Petroleum), petroleum aromatic	64742-94-5	72 Hr EC50 Skeletonema costatum: 2.5 mg/L

Ecotoxicity - Freshwater Fish Species Data

Naphthalene	91-20-3	96 Hr LC50 Pimephales promelas: 6.14 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 1.60 mg/L [flow-through] (juvenile); 96 Hr LC50 Pimephales promelas: 6.08 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 1.99 mg/L [static]
Solvent Naptha (Petroleum), petroleum aromatic	64742-94-5	96 Hr LC50 Pimephales promelas: 19 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 2.34 mg/L; 96 Hr LC50 Lepomis macrochirus: 1740 mg/L [static]

Ecotoxicity - Microtox Data

Naphthalene	91-20-3	30 min EC50 Photobacterium phosphoreum: 0.93 mg/L; 18 Hr EC50 Pseudomonas putida: >20 mg/L

Ecotoxicity - Water Flea Data

Naphthalene	91-20-3	48 Hr EC50 water flea: 2.16 mg/L
Solvent Naptha (Petroleum), petroleum aromatic	64742-94-5	48 Hr EC50 Daphnia magna: 0.95 mg/L

13. Disposal Considerations

Waste codes

U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics

Naphthalene	91-20-3	waste number U165

Disposal instructions Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

14. Transport Information

Department of Transportation (DOT) Requirements

Not regulated as hazardous goods.

Department of Transportation (DOT) Requirements

Bulk

Basic shipping requirements:

Proper shipping name	Combustible Liquid, n.o.s (SOLVENT NAPTHA (PETROLEUM), PETROLEUM AROMATIC)
Hazard class	3
UN number	1993
Packing group	III
Additional information:	
Special provisions	144, B1, IB3, T4, TP1, TP29
Packaging exceptions	150
Packaging non bulk	203
Packaging bulk	242

Canadian Transportation of Dangerous Goods (TDG) Requirements

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

15. Regulatory Information

Labelling

Contains Naphthalene, Poly(oxy-1,2-ethanediyl), a-(nonylphenyl)-w-hydroxy-, phosphate, Solvent Naptha (Petroleum), petroleum aromatic

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

NTP (National Toxicology Program) - Report on Carcinogens - Reasonably Anticipated to be Human Carcinogens

Naphthalene	91-20-3	Reasonably Anticipated To Be A Human Carcinogen

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Naphthalene	91-20-3	0.1 % de minimis concentration

U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification

Naphthalene	91-20-3	Section 4, 0.1 % de minimus concentration

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

Naphthalene: 100.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
Section 302 extremely hazardous substance	No
Section 311 hazardous chemical	Yes

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

International regulations

Canada - WHMIS - Ingredient Disclosure List

Naphthalene	91-20-3	1 %

IARC - Group 2B (Possibly Carcinogenic to Humans)

Naphthalene	91-20-3	Monograph 82 [2002]

State regulations WARNING: This product contains a chemical known to the State of California to cause cancer.

U.S. - California - Proposition 65 - Carcinogens List

Naphthalene	91-20-3	carcinogen, initial date 4/19/02

U.S. - Massachusetts - Right To Know List

Naphthalene	91-20-3	Present

U.S. - Minnesota - Hazardous Substance List

Naphthalene	91-20-3	Present

U.S. - New Jersey - Right to Know Hazardous Substance List

Naphthalene	91-20-3	sn 1322

U.S. - Pennsylvania - RTK (Right to Know) List

Naphthalene	91-20-3	Environmental hazard

U.S. - Rhode Island - Hazardous Substance List

Naphthalene	91-20-3	Toxic; Flammable

U.S. - Texas - Effects Screening Levels - Long Term

Naphthalene	91-20-3	9 ppb ESL (odor); 44 µg/m3 ESL (odor)
Solvent Naptha (Petroleum), petroleum aromatic	64742-94-5	46 ppb ESL; 256 µg/m3 ESL; 100 µg/m3 ESL (regulated under Solvesso 150)

U.S. - Texas - Effects Screening Levels - Short Term

Naphthalene	91-20-3	90 ppb ESL (odor); 440 µg/m3 ESL (odor)
Solvent Naptha (Petroleum), petroleum aromatic	64742-94-5	460 ppb ESL; 2560 µg/m3 ESL; 1000 µg/m3 ESL (regulated under Solvesso 150)

16. Other Information

HMIS® ratings
Health: 2*
Flammability: 2
Physical hazard: 0

NFPA ratings
Health: 2
Flammability: 2
Instability: 0

Prepared by
Max Busquet
515 Post Oak Blvd.
7136937985

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MSDS sections updated This document has undergone significant changes and should be reviewed in its entirety.