

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : H-130M

Other means of identification : ne H-130 (different reg.and uses, M=molluscicide)
Recommended use : BIOCIDE

Restrictions on use : Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.

Company : Nalco Company
1601 W. Diehl Road
Naperville, Illinois 60563-1198
USA
TEL: (630)305-1000

Emergency telephone number : (800) 424-9300 (24 Hours) CHEMTREC

Issuing date : 05/26/2015

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3
Acute toxicity (Oral) : Category 3
Acute toxicity (Inhalation) : Category 3
Skin corrosion : Category 1B
Serious eye damage : Category 1
Germ cell mutagenicity : Category 2

GHS Label element

Hazard pictograms :



Signal Word :
Danger

Hazard Statements :
Flammable liquid and vapour.
Toxic if swallowed or if inhaled
Causes severe skin burns and eye damage.
Causes serious eye damage.
Suspected of causing genetic defects.

Precautionary Statements : **Prevention:**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wear protective

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gloves/ protective clothing/ eye protection/ face protection.

Response:

IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/ physician. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No. | Concentration: (%) |
|------------------------------------|-----------|--------------------|
| Didecyl-Dimethyl-Ammonium chloride | 7173-51-5 | 50 |
| Ethanol | 64-17-5 | 10 - 30 |

Section: 4. FIRST AID MEASURES

| | |
|---|--|
| In case of eye contact | : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately. |
| In case of skin contact | : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately. |
| If swallowed | : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately. |
| If inhaled | : Remove to fresh air. Treat symptomatically. Get medical attention immediately. |
| Protection of first-aiders | : In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required. |
| Notes to physician | : Treat symptomatically. |
| Most important symptoms and effects, both acute and delayed | : See Section 11 for more detailed information on health effects and symptoms. |

Section: 5. FIREFIGHTING MEASURES

| | |
|--------------------------------|---|
| Suitable extinguishing media | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : None known. |
| Specific hazards during | : Fire Hazard |

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- firefighting : Keep away from heat and sources of ignition. Flash back possible over considerable distance. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- Hazardous combustion products : Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus
- Special protective equipment for firefighters : Use personal protective equipment.
- Specific extinguishing methods : Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Remove all sources of ignition. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Section: 7. HANDLING AND STORAGE

- Advice on safe handling : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Do not ingest. Keep away from fire, sparks and heated surfaces. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Use only with adequate ventilation.
- Conditions for safe storage : Keep away from heat and sources of ignition. Keep in a cool, well-ventilated place. Keep away from oxidizing agents. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.
- Suitable material : Keep in properly labelled containers.
- Unsuitable material : not determined

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Components with workplace control parameters

| Components | CAS-No. | Form of exposure | Permissible concentration | Basis |
|------------|---------|------------------|--------------------------------------|-----------|
| Ethanol | 64-17-5 | TWA | 1,000 ppm 1,900 mg/m ³ | NIOSH REL |
| | | TWA | 1,000 ppm 1,900 mg/m ³ | OSHA Z1 |

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Eye protection : Safety goggles
Face-shield

Hand protection : Wear the following personal protective equipment:
Standard glove type.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid
Colour : colourless
Odour : Alcoholic
Flash point : 43 °C
Method: Seta closed cup

pH : 7.0 - 8.0, 1 %

Odour Threshold : no data available

Melting point/freezing point : FREEZING POINT: -11.11 °C

Initial boiling point and boiling range : no data available

Evaporation rate : no data available

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| | |
|--|-----------------------|
| Flammability (solid, gas) | : no data available |
| Upper explosion limit | : no data available |
| Lower explosion limit | : no data available |
| Vapour pressure | : no data available |
| Relative vapour density | : no data available |
| Relative density | : 0.93 (25 °C) |
| Density | : 7.7 lb/gal |
| Water solubility | : completely soluble |
| Solubility in other solvents | : no data available |
| Partition coefficient: n-octanol/water | : no data available |
| Auto-ignition temperature | : no data available |
| Thermal decomposition temperature | : no data available |
| Viscosity, dynamic | : < 100 mPa.s (25 °C) |
| Viscosity, kinematic | : no data available |
| VOC | : 10 % 92.27 g/l |

Section: 10. STABILITY AND REACTIVITY

| | |
|------------------------------------|---|
| Chemical stability | : Stable under normal conditions. |
| Possibility of hazardous reactions | : No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | : Heat, flames and sparks. |
| Incompatible materials | : Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors. Contact with reducing agents (e.g. hydrazine, sulfites, sulfide, aluminum or magnesium dust) may generate heat, fires, explosions and toxic vapors. |
| Hazardous decomposition products | : Oxides of carbon Oxides of nitrogen HCl ammonia |

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Potential Health Effects

| | |
|-----------|---|
| Eyes | : Causes serious eye damage. |
| Skin | : Causes severe skin burns. |
| Ingestion | : Toxic if swallowed. Causes digestive tract burns. |

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Inhalation : Toxic if inhaled. May cause nose, throat, and lung irritation.

Chronic Exposure : Suspected of causing genetic defects.

Experience with human exposure

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

Toxicity

Product

Acute oral toxicity : rat: 450 mg/kg
Test substance: 80% Active Ingredient

Acute inhalation toxicity : LC50 rat: 5 mg/l
Exposure time: 4 h
Test substance: Product

Acute dermal toxicity : LD50 rabbit: > 4,000 mg/kg
Test substance: 80% Active Ingredient

Skin corrosion/irritation : no data available

Serious eye damage/eye irritation : no data available

Respiratory or skin sensitization : no data available

Carcinogenicity : no data available

Reproductive effects : no data available

Germ cell mutagenicity : Positive result(s) from in vivo mammalian somatic cell mutagenicity tests.

Teratogenicity : no data available

STOT - single exposure : no data available

STOT - repeated exposure : no data available

Aspiration toxicity : no data available

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects : Very toxic to aquatic life.

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Product

- Toxicity to fish : LC50 *Lepomis macrochirus* (Bluegill sunfish): 0.32 mg/l
Exposure time: 96 hrs
Test substance: Active Substance
- LC50 *Oncorhynchus mykiss* (rainbow trout): 1.6 mg/l
Exposure time: 96 hrs
Test substance: Active Substance
- LC50 *Oncorhynchus kisutch* (coho salmon): 1.0 mg/l
Exposure time: 96 hrs
Test substance: Active Substance
- LC50 *Pimephales promelas* (fathead minnow): 0.19 mg/l
Exposure time: 96 hrs
Test substance: Active Substance
- LC50 *Pimephales promelas* (fathead minnow): 1.2 mg/l
Exposure time: 96 hrs
Test substance: Active Substance tested with 20 mg/L Humic Acid
- LC50 *Cyprinodon variegatus* (sheepshead minnow): 0.96 mg/l
Exposure time: 96 h
Test substance: Active Substance
- Toxicity to daphnia and other aquatic invertebrates : EC50 *Daphnia magna* (Water flea): 0.06 mg/l
Exposure time: 48 hrs
Test substance: Active Substance
- Toxicity to algae : LC50 Green Algae (*Pseudokirchneriella subcapitata*, previously *Selenastrum capricornutum*): 0.026 mg/l
Exposure time: 96 hrs
Test substance: Active Substance
- Toxicity to fish (Chronic toxicity) : NOEC: 0.032 mg/l
Exposure time: 34 Days
Species: Zebra Danio
Test substance: Active Substance
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.01 mg/l
Species: *Daphnia magna*
Test substance: Active Substance
- EC25 / IC25: 0.125 mg/l
Species: *Daphnia magna*
Test substance: Active Substance

Persistence and degradability

The organic portion of this preparation is expected to be readily biodegradable.

Mobility

no data available

Bioaccumulative potential

no data available

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Other information

no data available

Section: 13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it could meet the criteria of a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Before disposal, it should be determined if the waste meets the criteria of a hazardous waste.

Hazardous Waste: : D001

Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.
The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.
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Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

Proper shipping name : CORROSIVE LIQUID, FLAMMABLE, N.O.S.
Technical name(s) : DIDECYLDIMETHYLAMMONIUM CHLORIDE, ETHANOL
UN/ID No. : UN 2920
Transport hazard class(es) : 8, 3
Packing group : II

Air transport (IATA)

Proper shipping name : CORROSIVE LIQUID, FLAMMABLE, N.O.S.
Technical name(s) : DIDECYLDIMETHYLAMMONIUM CHLORIDE, ETHANOL
UN/ID No. : UN 2920
Transport hazard class(es) : 8, 3
Packing group : II

Sea transport (IMDG/IMO)

Proper shipping name : CORROSIVE LIQUID, FLAMMABLE, N.O.S.
Technical name(s) : DIDECYLDIMETHYLAMMONIUM CHLORIDE, ETHANOL
UN/ID No. : UN 2920

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Transport hazard class(es) : 8, 3
Packing group : II

*Marine pollutant : DIDECYLDIMETHYLAMMONIUM CHLORIDE

*Note: This product is regulated as a Marine Pollutant when shipped by Rail, Highway (in bulk quantities), or Air (if no other hazard class applies), and when shipped by water in all quantities.

Section: 15. REGULATORY INFORMATION

EPA Reg. No. : 6836-203-1706

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard
Fire Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

INTERNATIONAL CHEMICAL CONTROL LAWS :

TOXIC SUBSTANCES CONTROL ACT (TSCA)

This product is exempted under TSCA and regulated under FIFRA. The inerts are on the Inventory List.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA)

Substances regulated under the Pest Control Products Act are exempt from CEPA New Substance Notification requirements.

AUSTRALIA

All substances in this product comply with the National Industrial Chemicals Notification & Assessment Scheme (NICNAS).

CHINA

All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

EUROPE

The substance(s) in this preparation are included in or exempted from the EINECS or ELINCS inventories

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JAPAN

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).

KOREA

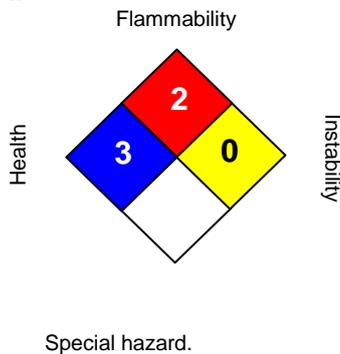
All substances in this product comply with the Toxic Chemical Control Law (TCCL) and are listed on the Existing Chemicals List (ECL)

PHILIPPINES

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

Section: 16. OTHER INFORMATION

NFPA:



HMIS III:

| | |
|------------------------|-----------|
| HEALTH | 3* |
| FLAMMABILITY | 2 |
| PHYSICAL HAZARD | 0 |

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date : 05/26/2015
Version Number : 1.0
Prepared By : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

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