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ALLIED INTERNATIONAL

6700 Caballero Blvd.,
Buena Park, CA. 90620

SDS SAFETY DATA SHEET

1. Product and company identification

Product Name LAUNDRY OIL EMULSIFIER

UN/ID No. DOT (US) Not Regulated

Recommended use of the chemical and restrictions on use

Recommended Use Removing soil, grease, food and oils from laundry

Supplier: Allied International
6700 Caballero Blvd.
Buena Park, CA. 90620

Manufacturer: Allied International

Print date: 04-13-15

Responsible name: K.B.
In case of emergency: HEALTH EMERGENCIES — SPILL EMERGENCIES
CALL CHEMTREC (800) 424-9300

Product type: Mixture

2. Hazards identification

Appearance: Clear to Hazy	Physical State: Thick Liquid	Odor: Odorless
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Hazard Statement

Spray mists causes irritation to respiratory tract.

Harmful to aquatic life

Reacts with acids, ammonium slats, reactive to metals and some organics

High pH of formula, release to surface water is harmful to aquatic life.

Eye contact: Causes moderate irritation to the eyes

Skin contact: Causes moderate irritation to the skin

Inhalation: Spray mist is irritating to respiratory tract

Ingestion: May cause irritation to mouth, esophagus, and stomach

Chronic hazard: No known chronic hazards. Not listed by NTP, IARC or OSHA as a carcinogen

Physical hazard: Dries to form glass film, which can easily cut skin. Spilled material is very slippery.
Can etch glass if not promptly removed.

Precautionary Statements – Preventions

Wash face, Hands and any exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Do not breath dust/fume/gas/mist/vapors/spray

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

Precautionary Statements – Response

Immediately Call A Poison Center Or Doctor/Physician

Eyes: Flush with large amounts of water. Consult a physician immediately

Skin: Wash with water. Remove contaminated clothing and foot wear seek medical attention

Inhalation: Get person out of contaminated area to fresh air. Seek medical attention.

Ingestion: Do Not Induce Vomiting. Give large quantities of water or milk. Consult physician immediately

Precautionary Statements – Storage

Store locked up
Store in a well-ventilated place. Keep container tightly closed.

Precautionary Statements –Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Harmful to aquatic life

3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>%</u>
Silicic Acid, sodium salt; Sodium silicate	1344-09-08	40

4. First aid measures

Eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: **If swallowed, DO NOT induce vomiting.** Get medical attention immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

Note to physician Treat symptomatically

5. Fire-fighting measures

Flammable limits: This material is noncombustible

Flammability of the product: This material is not flammable

Extinguishing media: This material is compatible with all extinguishing media
This material is compatible with all extinguishing media

Suitable: Use appropriate fire extinguisher for surrounding environment

Special protective equipment for fire-fighters: Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool. Self-containing breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals

6. Accidental release measures

Personal precautions: Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots.

Environmental precautions: Sinks and mixes with water. High pH of this material is harmful to aquatic life. Only water will evaporate from a spill of this material

Methods for cleaning up

Small spill: Mop up and neutralize liquid, then discharge to sewer in accordance with federal, state and local regulation or permits.

Large spill: Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Stop leak if you can do so without risk. Prevent

runoff from entering into storm sewers and ditches which lead to natural waterways. Isolate, dike and store discharged material, if possible. Use sand or earth to contain spilled material. If containment is impossible, neutralize contaminated area and flush with large quantities of water.

CERCLA RQ:

There is no CERCLA Reportable Quantity for this material. If a spill goes off site, notification of state and local authorities is recommended.

7. Handling and storage

Handling:	Avoid contact with eyes, skin and clothing. Avoid breathing spray mist. Keep container closed. Promptly clean residue from closures with cloth dampened with water. Promptly clean up spills
Storage	Keep container closed. Store in clean steel or plastic containers. Separate from acids, reactive metals, and ammonium salts. Storage temperature 0-95 ⁰ C. Do not store aluminum, fiberglass, copper, brass, zinc or galvanized containers.

8. Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

Engineering Controls	Apply technical measures to comply with the occupational exposure limits. Local exhaust ventilation recommended. Eye wash stations. Showers. Should be within direct access.
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Individual-protection measures, such as personal protective equipment

Eye/Face Protection	Wear chemical goggles
Skin and Body Protection	Wear body-covering protective clothing and gloves
Respiratory Protection	Use a NIOSH-approved dust and mist respirator where spray mist occurs. Observe OSHA regulations for respirator use (29 C.F.R. §1910.134)
General Hygiene considerations	Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash face, hands and any exposed skin thoroughly after handling.

9. Physical and chemical properties

Physical state	Thick liquid
Color	Clear to hazy white
pH	Approximately 12.3
Specific gravity	1.56 g/cm ³ (20 ⁰ C), 52.0 ⁰ Bé, 13.02 lbs/gal
Solubility in water	Miscible

10. Stability reactivity

Stability	This material is stable under all conditions of use and storage.
Conditions to avoid	None
Materials to avoid	Gels and generates heat when mixed with acid. May react with ammonium salts resulting in evolution of ammonia gas. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead, and zinc.
Hazardous decomposition products	Hydrogen

11. Toxicological information

Acute Data:	When tested for eye and skin irritation potential, a similar material caused moderate irritation to the eyes and moderate irritation to the skin. Human experience indicates that skin irritation occurs, particularly, when sodium silicates get on clothes at the collar, cuffs or other areas where contact and abrasion may occur. The acute oral toxicity of this product has not been tested. When sodium silicates were tested on a
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100% solids basis, their single dose acute oral LD₅₀ in rats ranged from 1500 mg/kg to 3200 mg/kg. The acute oral lethality resulted from nonspecific causes. This product contains approximately 47.1% sodium silicate.

Subchronic Data:

In a study of rats fed sodium silicate in drinking water for three months, at 200, 600 and 1800 ppm, changes were reported in the blood chemistry of some animals, but no specific changes to the organs of the animals due to sodium silicate administration were observed in any of the dosage groups. Another study reported adverse effects to the kidneys of dogs fed sodium silicate in their diet at 2.4g/kg/day for 4 weeks, whereas rats fed the same dosage did not develop any treatment-related effects. Decreased numbers of births and survival to weaning was reported for rats fed sodium silicate in their drinking water at 600 and 1200 ppm.

Special Studies:

Sodium silicate was not mutagenic to the bacterium *E. coli* when tested in a mutagenicity bioassay. There are no known reports of carcinogenicity of sodium silicates. Frequent ingestion over extended periods of time of gram quantities of silicates is associated with the formation kidney stones and other siliceous urinary calculi in humans. Sodium silicate is not listed by IARC, NTP or OSHA as a carcinogen.

12. Ecological information

Eco Toxicity:

The following data is reported for sodium silicates on a 100% solids basis: A 96 hour median tolerance for fish (*Gambusia affinis*) of 2320 ppm; a 96 hour median tolerance for water fleas (*Daphnia magna*) of 247 ppm; a 96 hour median tolerance for snail eggs (*Lymnea*) of 632 ppm; and a 96 hour median tolerance for Amphipoda of 160 ppm. This product contains approximately 40% sodium silicate

Environmental Fate:

This material is not persistent in aquatic systems, but its high pH when undiluted or unneutralized is acutely harmful to aquatic life. Diluted material rapidly depolymerizes to yield dissolved silica in a form that is indistinguishable from natural dissolved silica. It does not contribute to BOD. This material does not bioaccumulate except in species that use silica as a structural material such as diatoms and siliceous sponges. Where abnormally low natural silica concentrations exist (less than 0.1 ppm), dissolved silica may be limiting nutrient for diatoms and a few other aquatic algal species. However, the addition of excess dissolved silica over the limiting concentration will not stimulate the growth of diatom populations; their growth rate is independent of silica concentration once the limiting concentration is exceeded. Neither silica nor sodium will appreciably bioconcentrate up the food chain.

Physical/Chemical:

Sinks and mixes with water. Only water will evaporate from this material.

13. Disposal considerations

Waste disposal:

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste contractor. Disposal of this product, solutions and any by products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements? Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposed material is not a hazardous waste. Dispose in accordance with federal, state and local regulations and permits.

HANDLING AND STORAGE and Section 7:
Refer to Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling and information and protection of employees.

14. Transport information

DOT Classification DOT (US) Not Classified as Hazardous

15. Regulatory information

CERCLA: No CERCLA Reportable Quantity has been established for this material.
SARA TITLE III Not an Extremely Hazardous Substance under §302. Not a Toxic Chemical under §313. Hazard Categories under §§311/312: Acute
TSCA: All ingredients of this material are listed on the TSCA inventory.
FDA: The use of sodium silicate is authorized by FDA as a boiler water additive for the production of steam that will contact food pursuant to 21 CFR §173.310; as a component of zinc-silicon dioxide matrix coating on food contact surfaces pursuant to 21 CFR §175.390(c); as a GRAS substance when migrating from cotton fabric used in dry food packaging pursuant to 21 CFR §182.70; and as a GRAS substance when migrating to food from paper and paperboard products pursuant to 21 CFS §182.90.

16. Other information

NFPA	Health Hazards	Flammability	Instability	Special Hazards
	2	0	0	B
HMIS	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2	0	0	B

Indicates information that has changed from previously issued version.

Disclaimer

The information provided in the Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet