SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification
Product Name: K-SOLVE

Product Use: Liquid Laundry Detergent

Company Information

Kingsfield Inc.
1 Dewolf Rd. Suite 210
Old Tappan, NJ 07675
Tel: 201-767-0414
Fax: 201-767-0743

In case of an emergency please call Tel: 1-(201)213-9811

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation

Classification according to Directive 67/548/EEC or 1999/45/EC Xi; Irritant R36/38:

Irritating to eyes and skin.

Label elements

Hazard pictograms



Signal word Warning

Hazard statements H315 Causes skin irritation

H319 Causes serious eye irritation

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash thoroughly after handling.

Safety Phrase(s) P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P362 Take off contaminated clothing and wash before reuse.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

NFPA ratings (scale 0 - 4)

Health	1
Fire	0
Reactivity	0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization: Liquid
Ingredients determined not to be hazardous. Includes water.

Chemical Name	CAS
Linear Alkyl Benzene	67774-74-7
Sulfonic Acid	7732-18-5
Lauryl alcohol EO	9002-92-0
Sodium Hydroxide	1310-73-2
Sodium Citrate	6858-44-2

4. FIRST AID MEASURES

Inhalation Move victim to fresh air. Apply resuscitation if victim is not breathing.

Ingestion Rinse mouth with water. Do not induce vomiting. Give a glass of water to be taken slowly. Seek medical advice.

Skin If skin contact occurs, remove contaminated clothing and wash skin thoroughly. If irritation persists see a doctor.

Eye If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

First Aid:

Facilities Eye wash station and normal washroom facilities.

Advice to Doctor Product is a dilute solution of surfactant, alkaline salts and quaternary ammonium compound. Vomiting has not been induced because of risk of aspiration into the lungs. Treat symptomatically. Contact Poisons Information Centre.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing media appropriate to surrounding fire. Use water spray to cool containers and surrounds.

Hazards from Combustion Products

Decomposes on heating emitting oxides of carbon, nitrogen and phosphorous and traces of hydrochloric acid.

Special Protective Equipment for fire Fighters

Fire fighters to wear Self-contained breathing apparatus (SCBA) in confined spaces, in oxygen deficient atmospheres or if exposed to products of decomposition. Full protective clothing is also recommended.

Specific Hazards Not a fire hazard. Not an explosion hazard.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal

Disposal of small spillages only. For large spillages liquids should be contained using sand or earth, and both liquids and solids then transferred to salvage containers. Residues should be treated as for small spillages. CAUTION: Before dealing with spillage take necessary protective measures, inform others to keep at a safe distance and, for flammable materials, shut off all possible sources of ignition. CARE! Spillages will be slippery. If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise absorb on inert absorbent, transfer to container and arrange removal by disposal company. Wash site of spillage thoroughly with water. Ventilate area to dispel any residual vapours.

7. HANDLING & STORAGE

Conditions for Safe Storage

Store out of reach of children. Large quantities should be stored in a secure area. Store in original container. Keep away from oxidizing agents. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Other Exposure Information

No value assigned by the National Occupational Health and Safety Commission (Worksafe Australia).

Engineering Controls

Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate unless the material is heated, reacted or otherwise changed in some type of chemical reaction, then the use of a local exhaust ventilation system is recommended.

Personal Protective Equipment

Avoid contact with the skin and eyes. Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:

Safety glasses, gloves; rubber or plastic

Respirators in accordance with AS/NZS 1715/1716. The use of a P1 dust mask (disposable) or with replaceable filters is recommended. Filter capacity and respirator type depends on exposure levels and type of contaminant. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended.

Always maintain a high level of personal hygiene when using this product. That is wash hands before eating, drinking, smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Appearance	Slightly viscous, clear,
Odour	Fragrance
Boiling Point	100C
Solubility in Water	Miscible at all concentrations
Specific Gravity	1.04 ± 0.2
pH Value	10.0~11.0
Viscosity(CPS)	350±50
Evaporation Rate	No data.
Flash Point	No data.
Flammability	None flammable.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal use conditions.
Conditions to Avoid	Heat, flames, ignition sources and incompatibles.
Incompatible Materials	Strong alkalis, acids, oxidizing agents
Hazardous Decomposition Products	Emits smoke and fumes when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

No adverse health effects are expected, if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms and effects that may arise if the product is mishandled and overexposure occurs are:

Inhalation	May cause irritation to the nose, throat and respiratory system with effects including: Dizziness, headache and loss of co-ordination.
Ingestion	May cause irritation to mouth, throat and stomach with effects including mucous build up, irritation to the tongue and lips and pains in the stomach, which may lead to nausea, vomiting and diarrhoea.
Skin	May cause irritation to the skin, with effects including: Redness and itchiness.
Eye	May cause irritation to the eyes, with effects including: tearing, pain, stinging and blurred vision.
Chronic Effects	Prolonged or repeated skin contact may lead to dermatitis. No significant long term exposure effects have been reported.
Acute Toxicity - Oral	LD50 Quaternary ammonium salt 350 mg/kg oral, rat Surfactant 3,000 mg/kg oral, mouse

12. ECOLOGICAL INFORMATION

Ecotoxicity This product is biocidal in large quantities in the aquatic environment.

Persistence/Degradability Inherently Biodegradable

Mobility Readily dilutes with water.

Information on Ecological Effects Harmful to aquatic life.

Environment Protection Avoid contaminating waterways, drains, sewers, or ground.

13. DISPOSAL CONSIDERATIONS

Waste Disposal

Refer to appropriate authority in your State. Dispose of material through a licensed waste contractor. Normally suitable for disposal by approved waste disposal agent.

14. TRANSPORTATION INFORMATION

Class: 55

NMFC: 50303

Transport
ADR/RID
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

Information: Not classified as a Dangerous Good according to the Korean Code for the Transport of Dangerous Goods by Road and Rail.

15. REGULATORY INFORMATION

International Inventories at CAS# Level

All components of this product are listed on the following inventories : U.S.A(TSCA), Canada(DSL/NDSL), Australia(AICS),Korea(ECL)

Hazard Category Irritant

SARA 311/312 Hazard Categories

16. OTHER INFORMATION

Disclaimer: The information provided in this Safety Data Sheet is believed to be correct. However, since conditions of use are outside our control it should not be taken as a warranty of representation for which Kingsfield Inc. assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.

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