

ISSUE DATE: March 2015

REVISION DATE: October 2015

VERSION: 1

1. IDENTIFICATION

PRODUCT IDENTIFIER

PRODUCT NAME QUICK SILVER

OTHER MEANS OF IDENTIFICATION

Product Code HCS-101

Recommended Uses Powdered presoak for flatware.

SDS-SUPPLIER INFORMATION

SUPPLIER ADDRESS EMULSO
2750 Kenmore Avenue
Tonawanda, NY 14150

EMERGENCY TELEPHONE NUMBER

COMPANY PHONE NUMBER (716) 854-2889
COMPANY FAX NUMBER (716) 854-2809
24-HOUR EMERGENCY TELEPHONE (ACCOUNT #8686)
NORTH AMERICA 1-800-633-8253
INTERNATIONAL PERS 1-801-629-0667

2. HAZARDS IDENTIFICATION

CLASSIFICATION

Skin Corr. 1A H314
Resp. Sens. 1 H334
Carc. 1A H350

Full text of H-Phrases: See section 16

SIGNAL WORD Danger

HAZARD STATEMENTS



HAZARD STATEMENTS

1. Causes severe skin burns and eye damage.
2. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
3. May cause cancer.

PRECAUTIONARY STATEMENTS

PREVENTION Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Avoid breathing dust/fume/gas/mist/vapors/spray.
 Wash thoroughly after handling.
 Wear protective gloves/protective clothing/eye protection/face protection.
 In case of inadequate ventilation wear respiratory protection.

- RESPONSE** Immediately call a poison center/doctor.
 Specific treatment (see section 4).
- IF SWALLOWED** Rinse mouth. Do NOT induce vomiting.
- IF IN EYES** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF ON SKIN/HAIR** Take off immediately all contaminated clothing. Rinse skin with water/shower.
 Wash contaminated clothing before reuse.
- IF INHALED** Remove person to fresh air and keep comfortable for breathing.
- IF EXPOSED/CONCERNED** Get medical advice/attention. Immediately call a poison center/doctor.
- IF EXPERIENCING RESPIRATORY SYMPTOMS** Call a poison center/doctor.
- STORAGE** Store locked up
- DISPOSAL** Dispose of contents/container according to local, state, and federal regulations.
- OTHER HAZARDS** No additional information available.
- UNKNOWN ACUTE TOXICITY** Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE Not applicable.

CHEMICAL NAME	CAS NUMBER	WEIGHT - %	CLASSIFICATION (GHS-US)
Sodium Carbonate	497-19-8	5-8	Skin Corr. 1A, H314 Skin Irrit. 2, H315
Everlase 6.0T	9014-01-1	0.5-1.0	Eye Dam. 1, H318 Resp. Sens. 1, H334 STOT SE 3, H335
Ethanol	64-17-5	0.25-0.3	Flam. Liq. 2, H225 Carc. 1A, H350
Durmamyl 120T	9000-90-2	0.20-0.30	Resp. Sens. 1, H334

Full text of H-phrases: See section 16

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

GENERAL ADVICE	Provide this SDS to medical personnel for treatment.
EYE CONTACT	Immediately flush eye with copious amounts of cool, running water. Remove contact lenses if applicable, and continue flushing for at least 15 minutes, holding eyelids apart to ensure thorough rinsing of the entire eye. GET IMMEDIATE MEDICAL ATTENTION.
SKIN CONTACT	Immediately flush skin with copious amounts of cool, running water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician, immediately. Wash clothing before re-use.
INHALATION	Move victim to fresh air and keep at rest position. If qualified give oxygen or artificial respiration as needed.
INGESTION	DO NOT induce vomiting. Give large amounts of water if victim is conscious. Never give anything by mouth to an unconscious person. Seek medical attention immediately.
PROTECTION OF FIRST AIDERS	DO NOT use mouth-to-mouth method if victim ingested or 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.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE & DELAYED

MAIN SYMPTOMS	Skin/eye burns. Corrosive to mouth and throat. Ingestion can cause severe and rapid burning of mouth, throat and digestive tract. Mucous membrane irritant.
----------------------	---

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY

NOTES TO PHYSICIAN	If ingested, probable mucosal damage may contraindicate the use of gastric lavage.
---------------------------	--

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	The material is not combustible. Use extinguishing media appropriate for surrounding fire. Use water spray or fog, foam, dry chemical, alcohol foam, if product is involved.
SPECIFIC HAZARDS ARISING FROM CHEMICAL	No additional information available.

EXPLOSION DATA

SENSITIVITY TO MECHANICAL IMPACT	None.
SENSITIVITY TO STATIC DISCHARGE	None.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

Wet product is slippery. Avoid physical contact with wet material; highly caustic. Wear self-contained positive pressurized breathing apparatus MSHA/NIOSH approved or equivalent to maintain TLV.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

- NON-EMERGENCY PERSONNEL** Ensure adequate ventilation. Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Avoid breathing dust, fume, gas, mist, vapors, and spray. Wash face, hands and any exposed skin thoroughly after handling.
- EMERGENCY RESPONDERS** Do not attempt to take action without suitable protective equipment.
- ENVIRONMENTAL PRECAUTIONS** Avoid release to the environment.

METHODS AND MATERIALS FOR CONTAMINATION AND CLEAN-UP

- CONTAMINATION AND CLEAN UP** Neutralization is normally necessary before waste water is discharged into water treatment plants. Keep out of waterways. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Prevent further leakage or spillage if safe to do so. Sweep up solids, soak up if liquified. Transfer to appropriate waste container. Neutralize residue with mild acid and flush with water. Dispose of in accordance with local, state, and federal regulations.

For further information refer to section 13.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

- PROTECTIVE MEASURES** Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water. Do not eat, drink or smoke when using this product. Always use personal protective equipment.

CONDITIONS FOR SAFE STORAGE (INCLUDING ANY INCOMPATIBILITIES)

- STORAGE CONDITIONS** Store locked up. Keep container in well-ventilated area. Keep container tightly closed when not in operation. Store away from incompatible materials. Keep out of the reach of children.
- SPECIFIC END USE(S)** Powdered presoak for flatware.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

QUICK SILVER

ACGIH Not applicable.
 OSHA Not applicable

Sodium Carbonate (497-19-8)

ACGIH Not applicable.
 OSHA Not applicable.

Ethanol (64-17-5)

ACGIH	ACGIH STEL (ppm)	1000 ppm
ACGIH	Remark (ACGIH)	URT irr
OSHA	OSHA PEL (TWA) (mg/m ³)	1900 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm

Everlase 6.0T (9014-01-1)

ACGIH	ACGIH Ceiling (mg/m ³)	0.00006 mg/m ³
OSHA	Not applicable.	

Durmamyl 120T (9000-90-2)

ACGIH Not applicable.
 OSHA Not applicable.

EXPOSURE CONTROLS

ENGINEERING CONTROLS	Ensure adequate ventilation and that running water is available for washing eyes and skin.
INDIVIDUAL PROTECTION	Personal Protective Equipment (PPE).
EYE/FACE PROTECTION	Splash-proof chemical goggles or face shield.
SKIN/BODY PROTECTION	Impervious rubber, alkali-proof protective gloves. Impervious rubber boots and apron.
RESPIRATORY PROTECTION	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
GENERAL HYGIENE	Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Solid
COLOR	Blue powder
ODOR	There may be no odour warning properties, odor is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odor(s): Mild odor Odorless Alcohol odor. Pleasant odor Characteristic odor. No data available on odor.
ODOR THRESHOLD	No data available.

PROPERTY	VALUES
----------	--------

pH	>9
MELTING POINT/FREEZING POINT	No data available.
BOILING POINT/BOILING RANGE	No data available.

FLASH POINT	No data available.
RELATIVE EVAPORATION RATE (BUTYL ACETATE=1)	No data available.
FLAMMABILITY (SOLID, GAS)	No data available.
VAPOR PRESSURE	No data available.
SOLUBILITY	Water: Solubility in water of component(s) of the mixture : • : • : 100 g/100ml • : • : 44.45 g/100ml • : 31.7 g/100ml • : 22 g/100ml • : 15 g/100ml • : • : < 0.1 g/100ml
AUTOIGNITION TEMPERATURE	No data available.
DECOMPOSITION TEMPERATURE	No data available.
VISCOSITY	No data available.
VISCOSITY, KINEMATIC	No data available.
VISCOSITY, DYNAMIC	No data available.
EXPLOSIVE LIMITS	No data available.
EXPLOSIVE PROPERTIES	No data available.
OXIDIZING PROPERTIES	No data available.
RELATIVE DENSITY	No data available.
RELATIVE VAPOR DENSITY AT 20 °C	No data available.
LOG POW	No data available.
LOW KOW	No data available.

OTHER INFORMATION

No additional information available.

10. STABILITY AND REACTIVITY

REACTIVITY	Avoid acids/halogens.
CHEMICAL STABILITY	Stable under normal use/conditions.
POSSIBILITY OF HAZARDOUS REACTIONS	Avoid acids/halogens.
CONDITIONS TO AVOID	Avoid acids/halogens
INCOMPATIBLE MATERIALS	Avoid acids/halogens
HAZARDOUS DECOMPOSITION PRODUCTS	None known.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects.

ACUTE TOXICITY Not classified.

Sodium Carbonate (497-19-8)

LD50 oral rat	2800 mg/kg (Rat; Experimental value)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Experimental value)
ATE US (oral)	2800.000 mg/kg body weight

Ethanol (64-17-5)

LD50 oral rat	10740 mg/kg body weight (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 dermal rabbit	> 16000 mg/kg (Rabbit; Literature study)
ATE US (oral)	10740.000 mg/kg body weight

Everlase 6.0T (9014-01-1)

LD50 oral rat	3700 mg/kg (Rat)
ATE US (oral)	3700.000 mg/kg body weight

Durmamyl 120T (9000-90-2)
 LD50 oral rat > 2000 mg/kg (Rat)

SKIN CORROSION/IRRITATION	Causes severe skin burns and eye damage. pH: > 9
SERIOUS EYE DAMAGE/IRRITATION	Not classified pH: > 9
RESPIRATORY OR SKIN SENSITIZATION	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
GERM CELL MUTAGENICITY CARCINOGENICITY	Not classified. May cause cancer.

Ethanol (64-17-5)
 IARC group 1 - Carcinogenic to humans

REPRODUCTIVE TOXICITY	Not classified.
STOT – SINGLE EXPOSURE	Not classified.
STOT – REPEATED EXPOSURE	Not classified.
ASPIRATION HAZARD	Not classified.

12. ECOLOGICAL INFORMATION

TOXICITY

Sodium Carbonate (497-19-8)

LC50 fish 1	300 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 1	< 424 mg/l (48 h; Daphnia magna)
EC50 other aquatic organisms 1	14 mg/l (168 h; Plankton)
LC50 fish 2	740 mg/l (96 h; Gambusia affinis)
EC50 Daphnia 2	265 mg/l (48 h; Daphnia magna)
TLM fish 1	300 ppm (96 h; Lepomis macrochirus)
TLM other aquatic organisms 1	500 ppm (96 h; Daphnia magna)
Threshold limit algae 1	242 mg/l (5 days; Algae)

Ethanol (64-17-5)

LC50 fish 1	14200 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	9300 mg/l (48 h; Daphnia magna)
LC50 fish 2	13000 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	10800 mg/l (24 h; Daphnia magna)
Threshold limit other aquatic organisms 1	65 mg/l (72 h; Protozoa)
Threshold limit algae 1	1450 mg/l (192 h; Microcystis aeruginosa; Growth rate)
Threshold limit algae 2	5000 mg/l (168 h; Scenedesmus quadricauda; Growth rate)

Everlase 6.0T (9014-01-1)

LC50 fish 1	> 100 mg/l (Pisces)
-------------	---------------------

Durmamyl 120T (9000-90-2)

LC50 fish 1	58.3 - 326.7 mg/l (96 h; Pisces)
EC50 Daphnia 1	31.7 - 457 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	> 5.2 mg/l (72 h; Algae; Pure substance)

PERSISTENCE AND DEGRADABILITY

Sodium Carbonate (497-19-8)

Persistence and degradability

Biodegradability: not applicable. Low potential for adsorption in soil.

ThOD

Not applicable (inorganic)

Ethanol (64-17-5)

Persistence and degradability

Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.

Biochemical oxygen demand (BOD)

0.8 - 0.967 g O₂/g substance

Chemical oxygen demand (COD)

1.70 g O₂/g substance

ThOD

2.10 g O₂/g substance

BOD (% of ThOD)

0.43 % ThOD

Everlase 6.0T (9014-01-1)

Persistence and degradability

Biodegradability in water: no data available.

Durmamyl 120T (9000-90-2)

Persistence and degradability

Biodegradable in water. No (test) data on mobility of the components available.

BIOACCUMULATIVE POTENTIAL

Sodium Carbonate (497-19-8)

Log Pow

-6.19 (Estimated value)

Bioaccumulative potential

Low potential for bioaccumulation (Log Kow < 4).

Ethanol (64-17-5)

BCF fish 1

1 (72 h; Cyprinus carpio)

Log Pow

-0.31 (Experimental value)

Bioaccumulative potential

Low potential for bioaccumulation (Log Kow < 4).

Everlase 6.0T (9014-01-1)

Bioaccumulative potential

No bioaccumulation data available.

Durmamyl 120T (9000-90-2)

Log Pow

< 0

Bioaccumulative potential

Low potential for bioaccumulation (Log Kow < 4).

MOBILITY IN SOIL

Ethanol (64-17-5)

Surface tension

0.022 N/m (20 °C)

OTHER ADVERSE EFFECTS


EFFECTS ON GLOBAL WARMING No known ecological damage caused by this product.

13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

Dispose of contents/container according to local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT	
TRANSPORT DOCUMENTATION DESCRIPTION	UN1759 Corrosive solids, n.o.s., 8, II
UN-NO.	UN1759
PROPER SHIPPING NAME	Corrosive solids, n.o.s.
TRANSPORT HAZARD CLASS(ES)	8 - Class 8 - Corrosive material 49 CFR 173.136
HAZARD LABELS	8 – Corrosive
	
PACKING GROUP	II - Medium Danger
PACKAGING NON BULK (49 CFR 173.xxx)	211
PACKAGING BULK (49 CFR 173.xxx)	242
DOT SYMBOLS	G - Identifies PSN requiring a technical name IB7 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Wooden (11C, 11D and 11F). Additional Requirement: Liners of wooden IBCs must be sift- proof. IP1 - IBCs must be packed in closed freight containers or a closed transport vehicle. T6 - 4 178.274(d)(2) Normal...178.275(d)(2) TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.
SPECIAL PROVISIONS (49 CFR 172.102)	
PACKAGING EXCEPTIONS (49 CFR 173.xxx)	None.
QUANTITY LIMITATIONS PASSENGER AIRCRAFT/RAIL (49 CFR 173.27)	1 kg
QUANTITY LIMITATIONS CARGO AIRCRAFT ONLY (49 CFR 175.75)	25 kg

DOT VESSEL STORAGE LOCATION

B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

ADDITIONAL INFORMATION

No supplementary information available.

ADR

No additional information available.

IMDG (TRANSPORT BY SEA)

UN-NO. 1759
PROPER SHIPPING NAME CORROSIVE SOLID, N.O.S.
CLASS 8 - Corrosive substances
PACKING GROUP II - substances presenting medium danger

IATA (AIR TRANSPORT)

UN-NO. 1759
PROPER SHIPPING NAME Corrosive solid, n.o.s.
CLASS 8 - Corrosives
PACKING GROUP II - Medium Danger

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

QUICK SILVER

Not listed on the United States TSCA (Toxic Substances Control Act) inventory.

SODIUM CARBONATE (497-19-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

ETHANOL (64-17-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

EVERLASE 6.0T (9014-01-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

DURMAMYL 120T (9000-90-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

INTERNATIONAL REGULATIONS

CANADA

No additional information available.

EU-REGULATIONS

No additional information available.

CLASSIFICATION ACCORDING TO REGULATION (EC) NO. 1272/2008 [CLP]

No additional information available.

CLASSIFICATION ACCORDING TO DIRECTIVE 67/548/EEC [DSD] OR 1999/45/EC [DPD]

No additional information available.

NATIONAL REGULATIONS**ETHANOL (64-17-5)**

Listed on IARC (International Agency for Research on Cancer).

US STATE REGULATIONS**ETHANOL (64-17-5)**

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

16. OTHER INFORMATION**FULL TEXT OF H-PHRASES:**

Carc. 1A	Carcinogenicity Category 1A
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Liq. 2	Flammable liquids Category 2
Resp. Sens. 1	Respiratory sensitisation Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H350	May cause cancer

DISCLAIMER

The information provided in this Safety Data Sheet is correct to the best of our knowledge at the date of its publication. The information given is designed only as a 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