Lundmark "THE HALLMARK OF QUALITY"

SAFETY DATA SHEET

Issue Date 28-Apr-2015 **Revision Date** 28-Apr-2015 **Version** 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name TSP Cleaner LUN-3287

Other means of identification

SDS# LUN-3287_001

Details of the supplier of the safety data sheet

Company Name
Lundmark Wax Company
350 S La Londe Ave
Addison, IL 60101
(630) 628-1199

Emergency telephone number

Emergency Telephone INFOTRAC 1-800-535-5053

2. HAZARDS IDENTIFICATION

Classification

GHS classification
Skin corrosive 1B / Eye Damage 1
STOT SE 3
Met Corr 1

EC Classification Corrosive

Hazard Summary
Alkaline. Causes burns. Irritating to respiratory system
May cause permanent damage to eyes. Can etch glass if not
Promptly removed

Label elements

Hazard Pictograms

Signal Word Danger

Hazard statements
Causes severe skin burns and eye damage.
May cause respiratory irritation.
May be corrosive to metals.

Precautionary statement(s)

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Avoid release to the environment

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
If skin irritation occurs: Get medical advice/attention
Immediately call a POISON CENTER or doctor/physician

Precautionary Statements - Storage
Store locked up

Precautionary Statements - Disposal
Disposal should be in accordance with local, state or national legislation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Regulation (EC) No. 1272/2008 (CLP)

Ingredient(s)	%WW	CAS No	EINECS No. / REACH Registration	Hazard Symbol and Hazard Statement
Silicic acid, disodium salt; Sodium metasilicate pentahydrate	58	6834-92-0	2299129	H314 : Skin Corr. 1B Eye Dam. 1 ; H335 : STOT SE 3 ; H290 : Met. Corr. 1 ;
Water	42	7732-18-5		

4. FIRST AID MEASURES

First aid measures

Eye contact Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.

Skin Contact Wash affected skin with plenty of water. Continue to wash the affected area for at least 15 minutes. Obtain medical attention

Inhalation Remove patient from exposure, keep warm and at rest. Obtain immediate medical attention.

Ingestion Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Obtain immediate medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms Alkaline. Causes burns.
Irritating to respiratory system.
May cause permanent damage to eyes.

Indication of any immediate medical attention and special treatment needed

Note to physicians Obtain immediate medical attention.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Compatible with all standard firefighting techniques.

Unsuitable extinguishing media None known.
Advice for firefighters None

Specific hazards arising from the chemical
No Information available.

Explosion data
Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Wear suitable protective clothing. Wear eye/face protection.
An approved dust mask should be worn if dust is generated during handling.

Environmental precautions Do not allow to enter drains, sewers or watercourses. Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Caution - spillages may be slippery. Avoid generation of dust. Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with eyes, skin and clothing.
Avoid generation of dust. Emergency shower and eye wash facilities should be readily available.
See Also Section 8

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and dry. In case of high humidity or storage for extended periods of time, use plastic bags to enclose product containers to avoid caking.

Incompatible materials Unsuitable containers: Aluminum See Also Section 10.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines Exposure guidelines noted for ingredient(s).

Chemical Name	Occupational Exposure Limits
Disodium metasilicate	No Occupational Exposure Limit assigned. An exposure limit of 2 mg/m3 (15 min TWA) is recommended by analogy with sodium hydroxide (UK EH40).

Exposure controls
Appropriate engineering controls:
Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink or smoke at the work place. Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

Individual protection measures, such as personal protective equipment

Appropriate engineering controls Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink or smoke at the work place. Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

Skin and body protection Chemical goggles (EN 166). Wear suitable protective clothing and gloves. PVC or rubber gloves. For example EN374-3. Wear suitable overalls.
Eye/face protection

Respiratory protection Avoid inhalation of dusts. Wear suitable respiratory protective equipment if working in confined spaces with inadequate ventilation or where there is any risk of the exposure limits being exceeded. Advice on respiratory protective equipment is given in the HSE (Health and Safety Executive) publication HS(G)53.

Environmental Exposure Controls The primary hazard of sodium silicate is the alkalinity. Avoid generation of dust. Avoid release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Powder
Appearance	Powder. Granules. White
Color	White
Odor	Not applicable
Odor threshold	No Information available

Property	Values	Remarks • Method
pH	Strongly alkaline. Approx 14	
Specific Gravity	1.01	
Viscosity	No Information available	
Melting point/freezing point	No Information available	
Flash point	No Information available	
Boiling point / boiling range	No Information available	
Evaporation rate	No Information available	
Flammability (solid, gas)	No Information available	
Flammability Limits in Air	No Information available	
Upper flammability limit:	No Information available	
Lower flammability limit:	No Information available	
Vapor pressure	No Information available	
Vapor density	No Information available	
Water solubility	Soluble	
Partition coefficient	No Information available	
Autoignition temperature	No Information available	
Decomposition temperature	No Information available	

Other Information

Density Lbs/Gal	Approximately 49 lbs/ft3	untamped, 59 lbs/ft3 tamped.
VOC Content (%)	No Information available	

10. STABILITY AND REACTIVITY

Reactivity
Refer to Possibility of Hazardous Reactions.

Chemical stability
This product is hygroscopic

Possibility of Hazardous Reactions
When arc welding vessels containing aqueous solutions of this material, take care to control any explosion risk from hydrogen evolved by electrolysis. Aqueous solutions will react with aluminum, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air. Can react violently if in contact with acids. Can react with sugar residues to form carbon monoxide.

Conditions to avoid
Refer to Possibility of Hazardous Reactions.

Incompatible materials
Refer to Possibility of Hazardous Reactions.

Hazardous Decomposition Products
Hydrogen

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Ingestion	Material will cause chemical burns. All symptoms of acute toxicity are due to high alkalinity. Oral LD50 (rat) 1152-1349 mg/kg bw
Inhalation	Dust is a severe irritant to the respiratory tract. All symptoms of acute toxicity are due to high alkalinity. Inhalation LC50 (rat) >2.06 g/m³
Skin Contact	Material will cause chemical burns. Dermal LD50 (rat) >5000 mg/kg bw
Eye Contact	Material will cause chemical burns. May cause permanent damage if eye is not immediately irrigated.

Skin corrosion/irritation	Corrosive to: Skin
Serious eye damage/irritation	Corrosive to: Eyes.
Sensitization	Not sensitizing. (LLNA)
Mutagenicity	No evidence of Geno toxicity. In vitro/in vivo negative.
Carcinogenicity	Components are not listed by IARC, NTP or OSHA as carcinogens
Reproductive toxicity	No evidence of reproductive toxicity or developmental toxicity.
STOT - single exposure	Irritating to respiratory system.
STOT - repeated exposure	Not classified. NOAEL oral (rat) 227 mg/kg bw/d
Aspiration hazard	Not classified
Other information	Not applicable.

12. ECOLOGICAL INFORMATION

Toxicity	Fish (Brachydanio rerio) LC50 (96 hour) 210 mg/l Aquatic invertebrates: (Daphnia magna) EC50 (48 hour) 1700 mg/l
Persistence and degradability	Inorganic. Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica.
Bioaccumulative potential	Inorganic. The substance has no potential for bioaccumulation
Mobility in soil	Not applicable
Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
Other adverse effects	The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Dispose of this material and its container to hazardous or special waste collection point. This material is classified as hazardous waste under EC Directive 2008/98/EC. This material is classified as hazardous waste under the Hazardous Waste (England and Wales) Regulations SI 2005 No. 894. This material is classified as hazardous waste under the Hazardous Waste (England and Wales) Regulations SI 2005 No. 894.
Disposed water/wet solutions containing this material are classified as RCRA hazardous waste if they exhibit the corrosive characteristic (pH greater than or equal to12.5).

Contaminated packaging Disposal should be in accordance with local, state or national legislation.

14. TRANSPORT INFORMATION

UN number	3253
Proper Shipping Name	Disodium trioxosilicate
Transport hazard class(es)	8
Packing group	III
Environmental hazards	Not classified as a Marine Pollutant
Special precautions for user	Unsuitable containers: Aluminium

15. REGULATORY INFORMATION

International Inventories

TSCA	Reported/Included.
DSL/NDSL	Reported/Included.
AICS Inventory Status	Reported/Included.

German Water Hazard Classification VwVwS: Product ID number 847, WGK class 1 (low hazard to water).

16. OTHER INFORMATION

Data referenced in this eSDS is from company-owned information and from data legitimately accessed by PQ Corporation through membership of Industry Consortia or other agreements. This includes data relating to toxicology, ecotoxicology, DNELs, PNECs and other information in this eSDS and its annex.

This SDS was last reviewed: 04/2013
The following sections contain revisions or new statements: All sections updated to comply with Regulation (EC) No.1907/2006 (REACH) and Regulation (EC) No.1272/2008 (CLP) and their amendments.

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Revision Note
No Information available

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End of Safety Data Sheet