SAFETY DATA SHEET

Date: April 15, 2022

Revised: December 13, 2022

1. IDENTIFICATION

Product Name: LLST - 200

Reference Number: GA - 0120220309

SDS Number: LLST_200_1

Recommendation and restriction of use:

Recommendation of use: Deodorant

Supplier Information: GRAFTON INC.

3F, 4-11-14, Yoga, Setagaya-Ku, Tokyo, Japan Tel: 81-3-6413-4766 Fax: 81-3-6413-4737

Taisuke Shindo

2. HAZARDS IDENTIFICATION

GHS Classification, GHS Labelling Factor:

GHS Classification:

Toxicity to Physical Properties:

Inflammable Fluid: Category 3

Toxicity to Health

Acute Toxicity (Oral): Category 4
Skin Corrosion / Irritation: Category 2
Serious Damage to Eyes / Eye Irritation: Category 1
Toxicity to Specific Target Organ: Category 2

(Single Exposure) (Systemic Toxicity)

GHS Label Factors:



Warning Statement: Dangerous

Dangerous & Toxicity Information: Inflammable and vapor

Hazardous to swallow

Serious chemical Injury to skin and damage to eyes

Strong irritation to eyes

Possible damage to organs (Systemic Toxicity)

Hazardous Information: Inflammable liquid and vapor (H226), serious

damage to eyes.

Safety Measures: Keep away from ignition sources such as Heat,

Spark, Naked Fire, High Heat.

Refrain from smoking (P210), Close containers tight (P233). Fastening container to earth (P240), Use explosion proof type container (P240), Use sparkless tools (P242), Establish precaution to electrostatic discharge (P243), Wear personal

protectors (P280)

Emergency Measures: Take off all contaminated wears when it sticked to

skin and hair. Clean skin with running water and/or

shower (P303+P361+P353).

Carefully rinsing with water for sufficient period when it gets into eyes. Then, take off contact lenses if it is possible to take off easily. Continue rinsing for certain period (P305+P351+P338) and

consult with doctor immediately (P310).

Use alcohol tolerance foam fire extinguisher when

fire (P370+P378).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: The mixture.

Composition and ingredients:

Components	CAS No.	Content (%)	Official Gazette
			Ref. Number
Zinc Compound	N/D	< 10.0	N/D
Alcohol Compound	N/D	< 32.0	N/D
Additives	N/D	< 21.0	N/D
Pure Water	7732-18-5	< 40.0	

Remarks: Above are not product specification values.

Hazardous Components: Not applicable to following regulations and laws;

*Poisonous and Deleterious Substances Control Law.

*Industrial Safety and Health Act.

*Act on Confirmation, etc. of Release Amounts of Specific Chemical substances in the Environment and Promotion of improvement to the management thereof.

4. EMERGENCY MEASURES

Inhalation: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical advice/attention if

necessary.

Eve: Rinse cautiously with water for at least 15 minutes. Remove

contact lenses if it is easy to do so and continue rinsing. If

eye irritation persists, get medical advice/attention.

Skin: Gently wash with plenty of soap and water. If skin irritation

or rash occurs, get medical advice/attention.

Ingestion: Wash mouth with sufficient amount of water (Only in case of

person who is in conscious situation), and get medical

attention immediately. Do not give anything to mouth when

person is in unconscious situation.

5. ACCIDENTAL RELEASE MEASURES (FIRE)

The specific fire extinguishing steps:

The product is not inflammable, however, the dry matter, after the evaporation of the water, becomes flammable. Avoid any combustion promotion and extinguish with the proper

extinguishing agent.

The extinguishing agent: A water, the Foam Fire-Extinguisher and the

Powder Fire-Extinguisher are effective.

The notice to the extinguishing person:

Lead unconcerned people to safe place.

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Must use protective wear and musk for safety.

6. ACCIDENTAL RELEASE MEASURES (LEAKAGE)

Personal Precaution: Use personal protective equipment and avoid

any direct contact with skin.

Refer to Section 7 and 8 indicating below.

Environment Precaution: Prevent any outflow or spill out to the public

water area, river and lake region. Report immediately to related and responsible organizations and/or offices in case of any

spill outs.

Removal Process: Clean off by the proper fabrics in case of

leakage in small quantity. In case of large quantity, collect such leakages in airtight container, and then, collect the remains by Inactive Adsorption Materials such as Mud,

Sand, Diatom-Earth and etc.

7. HANDLING AND STORING

Handling

Technical measures:

Use local ventilation equipment when operating in non-ventilated work space.

Set up eye-cleaning equipment and display the sign of location clearly.

Use static protection operating tools.

Use explosion Proof machine, equipment, suction equipment, tool and etc.

Safety Precautions:

Use designated personal protection tools.

Avoid rough handlings such as tumbling, dropping, adding Impulse force and/or dragging.

Contact preventions:

Oxidizing agent, Reducing agent, Strong acid and Alkalies.

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Sanitation measure:

Prevent any direct touch to eyes and cloths.

Prevent eating and smoking while using.

Wash hands well after handling.

Storage (Safe Storage Condition)

Safety storage condition:

Store in place where restricting the unauthorizing entry.

Store in place with security locks.

Seal the container tightly and store at well ventilated space.

Store in place without any source of fire.

Store at cool space and avoid direct sun light.

Safe container and packing materials:

Use container which is confirming to the Fire Services Act and UN transportation Regulations.

Contaminating Hazardous Substance:

Refer to section 10 indicating below.

8. EXPOSURE CONTROL AND PROTECTION

Occupational Exposure Limits: It is recommended to handle partly or

totally in ventilated area.

Controlled and Permissible Concentrations: No specific guidelines.

Personal protective equipment:

Respiratory protection: Dust respirator in accordance with local and

national regulations.

Eye protection: Goggles if there is a dust formation.

Hand protection: Protective gloves.

Body protection: Light protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid

Color : White with transparent layer

separation

Odor : Alcohol Odor

pH : 9.5 - 10.5

Melting/Freezing points : Date not available
Boiling/Initial boiling points : Data not available
Decomposition Temperature : Data not available
Combustibility (Gas, Liquid & Solid) : Incombustible
Flash Point : Not applicable
Autoignition Point : Not applicable
Lower & Higher explosion limit : Not applicable

Vapor Pressure : Data not available
Relative gas density (Air=1) : Data not available
Density and/or relative density : Data not available

Dissolubility

Solubility (Water) : Soluble

(Solvent) : Data not available n-Octanol/water partition coefficient : Data not available

Particle properties : Not applicable

10. STABILITY AND REACTIVITY

Reactivity: Data not available

Chemical stability: Stable in the normal conditions

Hazardous reactivity:

Condition to be avoided:

Data not available

Data not available

Hazardous mixed substance: Oxidizing agent, Base chemical

Hazardous decomposition

Products: Carbon Dioxide

Carbon Mono-Oxide Nitrogen Oxides

11. TOXICITY INFORMATION

Acute Toxicity:

Oral: >5440mg/kg (OECD guideline 401)

Percutaneous Data not available

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Inhalation (Gas): Data not available Inhalation (Vapor): Data not available

Skin Corrosion/Irritation: Category 2 (Contained Components

categorized in Category 2 is 10%)

Serious Damage to Eyes/Eye Irritation:

Give serious damage to eyes.

(OECD Guideline 405)

Respiratory Sensitizations: Data not available Skin Sensitizations: Data not available

Reproductive cell accidental abiogenesis:

Ames Test: Negative (OECD Guideline 471)

Carcinogenicity: Data not available Reproduction toxicity: Data not available

Specific target organ toxicity:

(Single exposure): GHS Classification

Category 2 (Systemic Toxicity)

(Repeated exposure): GHS Classification

Data not available

Respiratory System Toxicity: Data not available

12. ENVIRONMENT AFFECT INFORMATION

Ecotoxicity: Data not available
Aqueous Solubility: Data not available
Persistency/Degradability: Data not available
Bio-Accumulative: Data not available
Migration in soil: Data not available
Toxicity to ozone layer: Data not available

13. NOTICE FOR DISPOSAL

Processing method of waste

Dispose contents/containers in accordance with Government regulations.

Dispose at authorized waste disposal site.

Do not dispose in water, ground and sewer.

Contaminated container and packages

Use up content completely and dispose containers.

14. TRANSPORTATION INFORMATION

International Regulation: 1987

Product name (ADR): Alcohols (With exception of products

Indicated)

UN Classification (ADR): 3

Container Classification

(ADR): III

Marine Pollution: Not applicable

Domestic regulation:

Road Traffic Act: Restriction on traffic (Article 19-13 of

the Enforcement Order of the Road

Traffic Law)

Maritime Regulatory: In accordance to the Ship Safety Act

Ship Safety Act: Inflammable liquid

Port Regulation Act: Other hazardous materials and

Inflammable liquids

Aviation regulation Act: In accordance to the Aviation Law

Aviation Law: Inflammable liquid

Special Safety Measures in Transportation and Means of Transportation

^{*}Packing, Labeling and Transportation shall be performed in accordance to relevant regulations.

^{*}Check the any damage and leakage of container.

^{*}Ensure to prevent any cargo shifting.

^{*}Prevent any shocks and impacts to container while handling.

^{*}Do not crash and tumble.

^{*}Prohibit horizontal stacking.

^{*}Avoid high humidity condition.

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*Beware of any fire and high heat.

*Avoid any consolidation with Class 1 of Fire Service Hazardous Materials, Oxidizing Agents and highly Oxidized Substances.

*Place the wheel stopper and check the connection of hose at the time of loading/unloading services of tank lorry or others. Dispose the residual liquid left in hose at the time of removing hose.

Emergency First Aid Guidelines Number: 127

15. Applicable Law.

Industrial Safety and Health Act: Hazardous and inflammable material

(Enforcement Order Appended Table No.1, No. 4).

Fire Service Act: Class 4 flammable liquids, No. 2 petroleum-class

water-insoluble liquid (Article 2, Paragraph 7 of the Act Dangerous Goods, Appended Table No. 1,

No.4).

Marine Pollution Control Act: Hazardous Liquid Substance (Class Y

Substance) (Enforcement Order Appended No.1).

Foreign Exchange & Foreign Trade Act:

Export Trade Control Order Schedule 1-16

Ship Safety Act: Inflammable Liquids (Hazard schedule No.2,

Article 3, Dangerous Goods Notification

Appended Table No.1).

Civil Aeronautics Law: Flammable liquids (Article 194 of the Enforcement

Regulations, Dangerous Goods Notification

Appended Table No.1).

Port Law: Other Dangerous Goods & Inflammable Liquids

(Article 21, Paragraph 2 of the Act, Article 12 of the Rules, Appendix to Notification Specifying

Types of Dangerous Goods).

Road Laws: Restrictions on vehicular traffic (Article 19-13 of

the Enforcement Decree, Independent administrative agency Japan expressway ownership, Debt Repayment Organization Notice

No. 12, Attached Table No. 2).

Act on Restrictions on the Export and Import of Specified Hazardous Wastes: (Basel Method)

16. Other Information.

Reference Literatures

Globally Harmonized System of classification and labelling of chemicals, (6th edition, 2015), UN

Recommendations on the TRANSPOT OF DANGEROUS GOODS 20th edit., 2017 UN

IMDG Code, 2018 Edition (Incorporating Amendment 39-18)

IATA aviation dangerous materials prospectus 61 edit 2020

Classification, labelling and packaging of substances and mixtures (Table 3 ECNO6182012)

2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2020 TLVs and BEIs. (ACGIH)

http://monographs.iarc.fr/ENG/Classification/index.php

JIS Z 7252: 2019

JIS Z 7253: 2019

Supplier's data/information

GESTIS-Stoffdatenbank

Pub Chem (OPEN CHEMISTRY DATABASE)

Above information is made based on our present state of knowledge on presently available references and information data, and it is subject to be revised upon available of new information. Remarks listed aforesaid are based on the case of normal handling, therefore, it is recommended to take an adequate safety measures in case of having the special handlings. The indicated GHS classification/category were calculated based on presently available Japanese publication data (NITE 2019 edit.)