SAFETY DATA SHEET

Date: August 4, 2022

Revised: September 29, 2022

1. IDENTIFICATION

Product Name: LLST-0085

Reference Number: LLST-0085-20220804 Product Number: (SDS No.) LLST_0085_1

Recommendation and restriction of use:

Recommendation of use: Deodorant for Perm Solution

: Undiluted liquid for dilution (Fivefold or up)

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2. HAZARDS IDENTIFICATION

GHS Classification, GHS Labelling Factor:

GHS Classification:

Not classified and not applicable to all categories.

GHS Label Factor:

No Pictograph and no warning statement required.

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
Hydroxy Acid	N/D	<15.0	N/D
Pure Water	7732–18-5	< 85.0	_
Pure Water	7732-18-5	< 80.0	_

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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.

Eye: 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 Rinse mouth well with clean water and get medical advice/

attention immediately.

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.

Must use protective wear and musk for safety.

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6. ACCIDENTAL RELEASE MEASURES (LEAKAGE)

Personal Precaution: Use personal protective equipment and avoid

any direct contact with skin.

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:

(Prevention of Revelation)

Prevent the inhalation of mist, vapor and spray.

(Precaution)

Proper protection of eyes.

Safe handling instructions:

Use in outdoor or in well ventilated spaces only.

Use designated protective equipment.

Safe handling instructions: Data not available Contact prevention: Data not available

Sanitation measure:

Prevent any direct touch to eyes and cloths.

Prevent eating and smoking while using.

Wash hands well after handling.

Storage

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Safety storage condition:

Seal the container tightly and store at well ventilated space.

Store at cool space and avoid direct sun light.

Safe container and packing materials: Data not available.

8. EXPOSURE CONTROL AND PERSONAL 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

Condition: Liquid

Color: Transparent
Odor: Odorless
pH: 3.1-3.3

Melting/Freezing points: Date not available Boiling/Initial boiling points: Data not available Boiling point range: Data not available

Flammability

(Gas, Liquid and solid matter): Do not combust

Lower/Higher explosion limit/

explosion limit:

Flash point:

Autoignition point:

Not applicable

Not applicable

Vapor Pressure:

Relative gas density (Air=1):

Data not available

Density and/or relative density:

Data not available

Kinematic viscosity: 1.5-9.5mPas

Kinematic viscosity rate: 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

Reactive chemical substance

Data not available

Data not available

Hazardous decomposition

Products Data not available

11. TOXIICOLOGICAL INFORMATION

Acute toxicity: Data not available

Local effect:

Acute skin irritation Data not available
Acute eye irritation Data not available
Respiratory/skin sensitizations: Data not available

Reproductive cell accidental abiogenesis: Data not available

Carcinogenicity:

Teratogenicity:

Reproduction toxicity:

Specific target organ toxicity:

(Single exposure):

(Repeated exposure):

Aspiration hazardousness:

Data not available

Data not available

Data not available

Data not available

12. ENVIRONMENT AFFECT INFORMATION

Ecotoxicity

Aquatic Environment toxicity: Data not available
Aqueous Solubility: Data not available
Persistency/Degradability Data not available
Bio-Accumulative Data not available
Migration in soil Data not available

Other hazardous affects

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

UN number, Classification

UN number or ID:

Official transportation:

Classification or category:

Container classification:

Not applicable

Not applicable

Not applicable

IMDG Code (International marine dangerous material rule)

Not applicable

IATA aviation dangerous materials prospectus

Not applicable

MARPOL Treaty Annex III - Prevention of pollution caused by individual hazardous item/substance.

Marine pollution materials (applicable/not applicable):

Special safety measures

Special safety measures Data not available

Bulk transportation (MARPOL Treaty annex II Revision of hazardous liquid materials and IBC Code Not applicable

Regularity information if domestic regulation is enforced.

Ship Safety Law Not applicable Aviation Law Not applicable

15. Applicable Law.

Regulations and Laws concerning referenced product (Safety, Health and Environment)

Toxic and deleterious substances control law:
Industrial safety and health act:

Law for promotion of chemical management:

Fire protection law:

Chemical substance control law:

Not applicable

Not applicable

Not applicable

Other Information.

Reference Literatures

Globally Harmonized System of classification and labelling of chemicals, (7th edition, 2017), UN

Recommendations on the TRANSPOT OF DANGEROUS GOODA 20^{th} 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.)