

GRAFTON
-induced Graft Polymerization Technology

SAFETY DATA SHEET

November 30, 2012
Revised: October 1, 2019

1. Identification of the Product and the Company Information.

Product Name: FTN-103-LLST-3
Reference No.: GA-20121131
SDS No.: FTN_103_LLST_3-1
Recommended Use and Limit of Usage
Recommended Use: Deodorants
Supplier Details: GRAFTON INC
3F, 4-11-14, Yoga, Setagaya-Ku, Tokyo, Japan
Tel: 81-3-6413-4766 Fax: 81-3-6413-4737

2. Summary of Hazardousness

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.
Chemical name in general: Copolymer.
Composition and ingredients:

Ingredients	CAS No.	Official Gazette Ref. Number	Content (%)
2-Acrylamine-2-Methyl-1- Propane Sulfonic Acid	15214-89-8	2-2821	< 5.0
Polyamine Compounds	N/D	N/D	< 5.0
Potassium Phosphate	7758-11-4	1-452	< 15.0

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Trehalose	6138-23-4	9-674	< 2.0
Additives	N/D	N/D	<1.0
Pure Water	7732-18-5	—	< 86.0

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. Hazard and Toxicity Summary.

The Most Important Hazard and Toxicity: Data not available.

Hazardousness: It may become irritated if the material is left on the skin.

Environmental Effect: Specific Information are not available.

Physical and Chemical Hazardousness: Exhibit the low-risk under normal condition.

5. Fast Aid Measures.

General information: Remove contaminated soaked clothing immediately and dispose of safety.

After contact with eyes: In case of contact with eyes, rinse thoroughly with water.

After contact with skin: In case of contact with skin, wash off immediately with soap and water. Consult with a doctor if skin irritation persists.

After inhalation: Ensure supply of fresh air.

After ingestion: Rinse out mouth and give plenty of water to drink.

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6. 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.

7. Necessary Measures in case of the Leakage.

Precaution to Human Body: Avoid any direct contact with skin by wearing the proper protective clothing.

Precaution to Environment: Prevent any outflow or spill out to the public water area, river and lake region. Report immediately to the related and responsible organizations and/or offices in case of any spill outs.

Removal Process: Clean off by proper fabrics in case of the small leakage. In case of the large quantity, collect the remains by the Inactive Adsorption Materials such as Mud, Sand, Diatom-Earth and etc.

8. Handling and Storage

Technological Countermeasure: Handle in the well-ventilated area.

Advice on safe handling: Not necessary to use any specific protective equipments in the normal condition, but it may be necessary to wear the protective glasses.

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Storage condition: Store in cool, dry place. Avoid direct sunlight and freeze condition.

9. Exposure Controls / Personal Protection

Occupational exposure limits: It is recommended to handle with partly or totally ventilated area.

Controlled and Permissible Concentrations: No Specific Guideline.

Personal protective equipment:

Respiratory protection: Do not inhale dust.

Eye protection: Goggles if there is a dust formation.

Hand protection: Protective gloves.

Body protection: Light protective clothing.

10. Physical and Chemical Properties

Condition:	Liquid.
Color:	Yellowish Cloudy
Odor:	Odorless
pH:	6.0 ~ 7.2
Viscosity:	1.5 ~ 9.5mPa·s (20°C)
Boiling point:	Over 100°C.
Melting point:	Below 0°C.
Ignition point:	Data not available.
Dissolubility:	Dissolved by water.
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:	Not applicable
Flash point:	Not applicable
Autoignition point:	Not applicable
Vapor Pressure:	Data not available
Relative gas density (Air=1):	Data not available
Density and/or relative density:	Data not available
Kinematic viscosity:	1.5-9.5mPas

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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

11. Stability and reactivity

Stability:	Stable in the normal condition.
Reactivity:	No reactivity.
Hazards decomposition:	There is possibility to create poisonous gases such as CO, NO and etc. resulting from the combustion.

12. Hazardous Information

Acute toxicity:	Data not available
Local effect:	
Skin corrosion / Irritation:	Data not available
Serious damage to eyes / Irritation:	Data not available
Respiratory / Skin sensitizations:	Data not available
Reproductive cell accidental abiogenesis:	Data not available
Carcinogenicity:	Data not available
Teratogenicity:	Data not available
Specific target organ toxicity:	Data not available
(single exposure):	Data not available
(Repeated exposure):	Data not available
Aspiration hazardousness:	Data not available

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13. Environmental Affect Information

Ecotoxicity:	Data not available
Aqueous Solubility:	(Potassium Phosphate) 22g/100ml (ICSC, 2005)
Persistency / Degradability:	Data not available
Bio-Accumulative:	Data not available
Migration in soil:	Data not available
Other hazardous affect	
Ozone layer:	Data not available

14. Notice on Disposal

Any waste must be handled carefully and it is recommended that such wastes should be disposed by Licensed Waste Industry Agents.

15. Transportation Information

UN number, Classification

 UN number or ID: Not applicable

 Official transportation: Not applicable

 Classification or Category: Not applicable

 Container Classification: Not applicable

IMDG Code (International marine dangerous material rule):

 Not applicable

IATA aviation dangerous materials prospectus:

 Not applicable

Environmental hazardousness

 MARPOL Treaty Annex III- Prevention of pollution caused by individual
 Hazardous items/substances

 Marine pollution materials: Not applicable

 Special safety measures Data not available

Regularity information if domestic regulation is enforced

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Ship safety law:	Not applicable
Aviation law:	Not applicable

16. Applicable Law.

Chemical Substance Management Promotion Law:	Not applicable.
The Occupational Safety and Health Act:	Not applicable.
Fire Regulations:	Not applicable.
Regulation in transporting dangerous cargoes by ships and a storage rule:	Not applicable.

17. Other Information.

Reference Literatures

Globally Harmonized System of classification and labelling of chemicals, (7th edition, 2017), UN
Recommendations on the TRANSPORT 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.)