

MATERIAL SAFETY DATA SHEET

[1. Company and product information]

Name of product : Propastop Type E
Company : Nissei Clean Co., Ltd.
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[2. Abstract of hazards identification]

GHS classification

[Physical and chemical hazard]

Explosives	[Unable to classify]
Inflammable gas	[Out of classification subject]
Inflammable aerosol	[Out of classification subject]
Burnability/Oxidizability gas	[Out of classification subject]
High pressure gas	[Out of classification subject]
Inflammable liquid	[Unable to classify]
Inflammable solid	[Out of classification subject]
Self-reactive chemical	[Unable to classify]
Spontaneous ignitable liquid	[Out of grouping]
Spontaneous ignitable solid	[Out of classification subject]
Self-heat generating chemical	[Unable to classify]
Water reactive inflammable chemical	[Out of grouping]
Oxidizability liquid	[Unable to classify]
Oxidizability solid	[Out of classification subject]
Peroxides	[Unable to classify]
Metal corrosive material	[Unable to classify]

[Health hazard]

Acute toxicity (oral)	[Unable to classify]
Acute toxicity (percutaneous)	[Unable to classify]
Acute toxicity (inhalation : gas • steam)	[Unable to classify]
Acute toxicity (inhalation : dust • mist)	[Unable to classify]
Skin corrosive/ irritation	[Unable to classify]
Severe damage to eyes/ eyes irritation	[Group 2A-2B]
Respiratory reaction	[Unable to classify]
Skin reaction	[Group 1]
Mutagenicity to germ cell	[Group 1]
Cancer causing	[Unable to classify]
Germ toxicity	[Group 1]
Specific target organ/ chronic toxicity (single exposure)	[Group 1 (Notes 1)] [Group 3 (Notes 2)]
Specific target organ/chronic toxicity (multiple exposure)	[Group 1 (Notes 3)] [Group 2 (Notes 4)]
Respiratory organs hazard	[Unable to classify]

Due to containing alcohols,

Notes 1 : Kidney, Central nervous system, Chronic toxicity, Respiratory organ

Notes 2 : Respiratory tract irritation, Anesthetic effect

Notes 3 : Liver

Notes 4 : Nervous system, Blood vessel

[Environmental hazard]

Water environmental acute hazard	[Unable to classify]
Water environmental inertia hazard	[Unable to classify]

GHS label element

Total labeling or symbol :



Word for calling attention	: Danger
Information for danger and hazard	: Serious skin drug injury & eye damage Allergic skin reaction may occur. Hazard to organs (Respiratory organ)
Matters to be attended	: [Protective measures] Wear protective gloves, glasses, mask and clothes. Avoid absorption of fine particles, smoke, gas, mist, steam and spray. Do not get out contaminated working clothes from work-room. Get handling explanatory leaflet before use. Read all notices for safety carefully and do not handle until getting complete understanding. Use specific individual protection device. Wash hand well after handling. Do not take food and smoke when handling the product. [Correspondence] Skin or hair contact : Take off and remove all contaminated clothes immediately. Wash skin with shower or running water. And wash with soap and large amount of water. If skin irritation and eruption are occurred, take doctor's diagnosis and treatment. Take off contaminated clothes, and wash it when re-used. Eye contact : Wash with water carefully for several minutes. Take off contact lenses when it is taken off easily, and continue washing.

Ingestion : Wash mouth. Do not spew out compulsorily.

Inhalation : Remove to fresh air area and take rest at the position of breeding easily. Ask doctor immediately.

In case of exposure and bad feeling, take doctor's diagnosis and treatment.

[Storage]

Keep by locking.

[Disposal]

Commit the work of wasting container and content to disposal trader licensed by prefecture.

[3. Information of composition and ingredient]

Distinction of single or mixture product : Mixture

Composition and purpose of use

<Composition>	<Purpose>
Alcohols	Penetration, Stabilization, Solubilization
Acrylic resins	De-odor, Dispersion, Stabilization
Organic bases	Stabilization, Buffer-agent
Organic acids	Stabilization, Buffer-agent
Sterilization chemicals	Bacteria elimination, De-odor
Anti-bacteria agent	Bacteria elimination, De-odor, Anti-oxidation
Stabilizer	Stabilization
Deionization water	Make balance

- 40% of alcohols is contained, and name of ingredient and amount of mixture are not open

[4. First aid measures]

Inhalation	: Remove from exposure area to fresh air immediately. Keep person warm and rest. Get medical attention immediately when abnormal.
Skin contact	: Wash with soap and large amount of water.
Eye contact	: Move patient to fresh air place immediately and rest. If abnormality is found, get medical attention immediately.
Ingestion	: Give several glasses of water for dilution effect, and get medical attention immediately if abnormality is found. Do not spew out compulsorily.

[5. Fire- fighting measures]

Fire extinguishing compositions	: Water spray, Dry powder and Carbon dioxide.
Method	: At initial fire, fight a fire with large amount of water spray or extinguisher of dry powder or carbon dioxide. Do it from follow wind side as possibly as you can.. Take out moving container from fire area as much as possible you can do safely.
Protection of person for fighting- fire	: Wear suitable safety tool.

[6. Accidental release measures]

Notice for human body	: Wear protection gloves when work. Wear goggle and protection mask if necessary.
Notice for environment	: Be careful not to waste it to river when wash with water.
Measures for removal	: Absorb small spilt liquid with sand or earth and correct it in a closed container for disposal. Wash the rest with large amount of water immediately. In large spilt, correct the spilt liquid as much as possible, and wash the rest with large amount of water.

[7. Handling and storage]

Handling	: Do not use except the purpose. Use it by keeping dosage and administration.
Technical measures	: Do not bring close to fire and other ignition sources or do not pore and heat. Do work at the place of good ventilation. Do not use together with another product and raw material.
Notice	: Always arrange the handling place properly and do not put inflammable and oxidizability materials. Do not spray toward human and fire. Do not touch to coating surface of lacquer and varnish and also plain. Do not use as deodorant for human.
Storage	: Store in poly-container or laminated cubitainer or chemical coated oil can (light shield one is preferable), and seal completely. Do not store together with other chemical products.
Suitable storage condition	: Store at the place of good ventilation and not steam piling up. Store in a dark, dry and cool location far from dangerous place of inflammable. Be careful for light shield, temperature, humidity and ventilation. Store at the place where children and pet can not touch. (Suitable storage temperature : 5-35 °C in packing condition when shipped.) (Suitable storage time : 8-12 months in packing condition when shipped)

[8. Exposure control and personal protection]

Control concentration and maximum allowable concentration :

Control concentration : Not applicable

The Society of Japanese Industry and Hygiene
(2009 edition) : Not applicable

ACGIH : 1000ppm (Ethanol)

Engineering measures : Handle at the place of good ventilation without fire.
(Establish hand washing place nearby)

Protection equipment : Usually use protection gloves. Goggle and mask
are used when necessary.

[9. Physical and chemical properties]

(Undiluted solution)

Form : Liquid and soluble in water

Color : Transparent and colorless

Odor : Odor of alcohols

pH 8.5-9.0

Specific gravity : 0.946 ± 0.01

Viscosity : No data

Flash point : No data

Boiling point : No data

Melting point : No data

Firing point : No data (Not dangerous thing)

[10. Stability and reactivity]

Stability : Stable under normal handling condition and dangerous
and hazard substance is not occurred after decomposition.

Reactivity : When contact with strong oxidizing compound, reaction may be
occurred, and may be reactive with acid and base.

Volatile point : No data

[11. Toxicological information]

Health hazard

Serious damage to eye/ eye irritation

Information on the product : No information. Judging from the result of
classification based on GHS for each ingredient, it
was assumed to be [Group 2A-2B].

Information on ingredient : Alcohols (100%) = Group 2, Organic base = Group 1,
Anti-bacterial agent (100%) = Group 1

Skin reaction

Information on the product : No information. Judging from the result of
classification based on GHS for each ingredient,
it was assumed to be [Group 1].

Information on ingredient : Anti-bacterial agent (100%)=Group 1

Mutagenicity to germ cell

Information on the product : No information. Judging from the result of
classification based on GHS for each
ingredient, it was assume to be [Group 1].

Information on ingredient : Alcohols (100%)= Group 1

Germ toxicity

Information on the product : No information. Judging from the result of
classification based on GHS for each
ingredient, it was assumed to be [Group 1].

Specific target organ/ chronic toxicity (single exposure)

Information on the product : No information. Judging from the result of
classification based on GHS for each
ingredient, it was assumed to be [Group 1]
(Kidney, Central nervous system, Chronic
toxicity, Respiratory organ). And due to
containing some amount of alcohol, it was
assumed to be [Group 3] (Respiratory tract
irritation, Anesthetic effect).

Information on ingredient : Alcohols (100%) = Group 1 (Kidney, Central
nervous system, Chronic toxicity)

Specific target organ/ chronic toxicity (multiple exposure)

Information on the product : No information. Judging from the result of
classification based on GHS for each ingredient, It
was assumed to be [Group 1] (Liver), [Group 2]
(Nervous system, Blood vessel).

Information on ingredient : Alcohols (100%) = Group 1 (Liver), Group 2
(Nervous system, Blood vessel)

[12. Ecological information]

No data.

[13. Disposal consideration]

When container and pipe after use are disposed, wash the content completely.
When disposed, commit to appointed company licensed by prefecture. (Follow the disposal of waste regulation).

[14. Transport information]

International control : Follow the regulation of IATA when air flight and
IMDG regulation when sea flight.

Classification of United Nation : Class 3 (Inflammable liquid) Grade III

Number of United Nation : 1993

Domestic control : Land transportation : Follow the transport system
determined by the Fire Services Act and the Labor
Safety & Hygiene Act.

Sea transportation : Follow the system determined
by Ship Safety Act.

Air transportation : Follow the system determined
by the Aviation Act.

Special safety measures and condition for transportation :

Refer to [6.Accidental release measures]

Refer to [7. Handling and storage]

Confirm of no release and break of container.

Do certainly prevention of load shifting.

Do packaging, labeling, transport according to
regulations concerned.

[15. Regulatory information]

- Fire services act : Not applicable
- PRTR act : Not applicable
- Labor safety & hygiene act : Not applicable
- Poisonous and Deleter ious Substance Control Law : Not applicable
- Ship safety act : Not applicable
- Aviation act : Not applicable

[16. Other information]

<References>

- Document of GHS United Nation Revised 2nd edition (Temporary translation, March, 2008) The text and attachment.
- Chemical substances and MSDS
- Labor safety & Hygiene Act
- Summary of labeling and application system for chemical substances

[Request]

The described content herein is given based on the present data and information for each ingredient, but no warranty for any data or estimation. All chemical products have unknown hazards, so adequate attention is necessary to handle. And please take into consideration to inform and know well this data to final person to handle certainly to make sure safety.