

SAFETY DATA SHEETS

1. IDENTIFICATION

Product identifier : MECHA SLUDGE CLEANER (Aerosol)

Company product code : A-0025

Supplier's name: Nippon Mecha-Chemical Co., Ltd.

Address : 3-2-23, Honohara, Toyokawa-Shi, Aichi-Pref., 442-0061, Japan

Phone number : (81)-533-84-3245

Emergency phone number : (81)-533-84-3245

Fax number : (81)-533-84-3429

Specific use : Rust/Sludge remover for wire guide of wire EDM

2. HAZARD IDENTIFICATION

GHS classification

Physical hazards	Explosives	Not classified	
	Flammable gases	Category 1	
	Flammable aerosols	Category 2	
	Oxidizing gases	Not classified	
	Gases under pressure	Liquefied gas	
	Flammable liquids	Not classified	
	Flammable solids	Not classified	
	Self-reactive substances and mixtures	Not classified	
	Pyrophoric liquids	Not classified	
	Pyrophoric solids	Not classified	
	Self-heating substances and mixtures	Not classified	
	Substances and mixtures which, in contact with water, emit flammable gases	Not classified	
	Oxidizing liquids	Not classified	
	Oxidizing solids	Not classified	
	Organic peroxides	Not classified	
	Corrosive to metals	Not classified	
	Health hazards	Acute toxicity (oral)	Not classified
		Acute toxicity (dermal)	Not classified
		Acute toxicity (gases)	Not classified
Acute toxicity (vapours)		Not classified	
Acute toxicity (dust / mist)		Not classified	
Skin corrosion / irritation		Classification not possible	
Serious eye damage / eye irritation		Classification not possible	
Respiratory sensitization		Classification not possible	
Skin sensitization		Classification not possible	
Germ cell mutagenicity	Classification not possible		
Carcinogenicity	Classification not possible		
Reproductive toxicity	Classification not possible		
Specific target organ systemic toxicity	Category 3 (narcotic)		

SAFETY DATA SHEETS

single exposure
Specific target organ systemic toxicity Classification not possible
repeated exposure
Aspiration hazard Not classified
Environmental Acute aquatic toxicity Classification not possible
hazards Chronic aquatic toxicity Classification not possible
Labelling elements : Flame / Exclamation mark



Signal words : Danger
Hazard statements : Extremely flammable gas
Flammable aerosol
Contains gas under pressure ; may explode if heated
May cause drowsiness or dizziness.
Precautionary statements : Do NOT inhale or ingest.
Avoid direct sunlight and high temperature (> 40°C) as the container may explode.
Use with adequate ventilation
Flammable, do not use around the fire.
Keep out of reach of children.
If accidentally swallowed, seek medical attention immediately.
If any dizziness occurs during usage, stop usage immediately and rest in a well ventilated area. Seek medical attention if necessary.
Ensure to seal container during storage. Avoid high temperature (> 40°C) and moisture as the container may explode or generate rust.
Quality and performance are ensured for one year from the product manufacture date.
When there is unusable product left in the can, spray the remaining gas out completely at a well-ventilated open space. Then dispose as non-combustible waste.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance or Mixture : Mixture

<u>Component</u>	<u>Chemical name</u>	<u>Wt%</u>	<u>CAS Registry#</u>
A	Butane	5	106-97-8
B	Propane	3	74-98-6
C	1-Methoxy-2-propanol	2	107-98-2

GHS hazardous ingredients : Components A, B and C

SAFETY DATA SHEETS

4. FIRST AID MEASURES

- Inhalation : Rest in a well ventilated area. Keep the person warm by using blanket. Seek medical attention if necessary.
- Skin contact : Rinse with running water immediately. Seek medical attention if necessary.
- Eye contact : Rinse with clean running water for at least 15 minutes and seek medical attention.
- Ingestion : Have a glass of water immediately and induce vomiting.
When cannot vomit or illness remains, give large amount of water or milk, and seek medical attention immediately.
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5. FIRE FIGHTING MEASURES

- Extinguishing media : Foam, Carbon dioxide, Dry chemical, Water
- Fire fighting instructions : 1. Move combustible substances away from the fire.
2. Use dry chemical or carbon dioxide for initial quenching.
3. Keep sealed containers wet and cold by using water.
4. In the case of peripheral fire, the liquid inside the aerosol can vaporised to increase the pressure of aerosol can and it may explode. Remove aerosol products away from the fire immediately. If the removal of aerosol can was difficult, secure enough distance for quenching.
5. Forbid unauthorised entry.
- Protective equipment : Quenching should start from the windward and ensure to wear personal protective equipments.
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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Avoid contact with eyes, skin and clothes.
- Environmental precautions : Must NOT drain directly.
- Methods and materials for containment and cleaning up : Collect the leaked agent in empty container as much as possible by using rags and wash left over away with water.
Be aware of possible environmental attack by the leakage.
Wear appropriate protective equipments.
Secure appropriate ventilation.
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7. HANDLING AND STORAGE

- Handling : Handle the container carefully to avoid fall and damage.
Be aware of generating static electricity and spark.
Avoid contact/heating with fire, spark and high temperature objects.
Avoid contact with eyes, skin and inhale vapours.
Wear appropriate personal protective equipment.
Prevent mixture with incompatible substances (Oxidising agent).
- Storage : Electrical apparatus used in store room should be explosion-proof and have an earth.

SAFETY DATA SHEETS

Avoid heat, spark, fire and static electricity accumulation.

Never store with Oxidising agent at same area.

Store in a cool ventilated area and avoid direct sunlight.

Store away from ignition source and heating source.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit values [Butane]	:	ACGIH (1999) TLV-TWA	1,900 mg/m ³
[Propane]		ACGIH TLV-TWA	2,500 mg/m ³
[1-Methoxy-2-propanol]		ACGIH (1999) TLV-TWA	606mg/m ³ (skin)
Engineering controls	:	Use with adequate ventilation.	
		Handle and store in a cool ventilated space.	

Personal protective equipment

Respiratory protection	:	Mask
Hand protection	:	Rubber gloves
Eye protection	:	Safety glasses
Skin protection	:	Long sleeves work wear

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Colourless clear liquid
Odour	:	Apple odour
pH	:	6.0
Melting point / freezing point	:	Not available
Initial boiling point and boiling range	:	Not applicable
Flash point	:	Not applicable
Upper / lower flammability or explosive limits	:	Not applicable
Vapour pressure	:	Not applicable
Vapour density	:	Not applicable
Relative density	:	1.04 g/cm ³ (15°C)
Solubility	:	Water soluble
Partition coefficient : n-octanol / water	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Not available
Viscosity	:	1.9 mPa·s (15°C)

10. STABILITY AND REACTIVITY

Chemical stability	:	Stable
Possibility of hazardous reactions	:	React vigorously with oxidising agent
Conditions to avoid	:	Heating
Incompatible materials	:	Oxidising agent
Hazardous decomposition products	:	Not applicable

11. TOXICOLOGICAL INFORMATION

SAFETY DATA SHEETS

Acute toxicity [Butane]	: LC ₅₀ (4 hours) 277,374 ppm (rat/inhalation)
[Propane]	LC ₅₀ (4 hours) 38,890 ppm (guinea pig/inhalation)
[1-Methoxy-2-propanol]	LD ₅₀ 5,400 µl/kg (rat / ingestion)
	LD ₅₀ 10 ml/kg (rat / skin exposure)
Skin corrosion / irritation	: [Butane] Classification not possible [Propane] Not classified
Serious eye damage / eye irritation	: [Butane] Classification not possible [Propane] Classification not possible
Respiratory or skin sensitization	: [Butane] Classification not possible [Propane] Classification not possible
Germ cell mutagenicity	: [Butane] Classification not possible [Propane] Classification not possible
Carcinogenicity	: [Butane] Classification not possible [Propane] Classification not possible
Reproductive toxicity	: [Butane] Classification not possible [Propane] Classification not possible
Specific target organ systemic toxicity single exposure	: [Butane] Category 3 (narcotic) [Propane] Category 3 (narcotic)
Specific target organ systemic toxicity repeated exposure	: [Butane] Classification not possible [Propane] Classification not possible
Aspiration hazard	: [Butane] Not classified [Propane] Not classified

12. ECOLOGICAL INFORMATION

Toxicity	: Information is not available
Persistence and degradability	: Information is not available
Bioaccumulative potential	: Information is not available
Mobility in soil	: Information is not available
Other adverse effects	: Information is not available

13. DISPOSAL CONSIDERATIONS

Flammable. Do NOT throw into fire after usage.

Aerosol should be completely empty before disposing.

When there is no usable product left in the can, spray the remaining gas out completely at a well-ventilated open space. Then dispose as non-combustible waste.

Comply with all federal, state and local regulations.

14. TRANSPORT INFORMATION

Transport	: Confirm no leak in vessel. Carefully load cargo to avoid falling and damage.
UN number	: 1950
UN hazard class	2.1
UN subsidiary risks	Information is not relevant
UN packing group	Information is not relevant

SAFETY DATA SHEETS

15. REGULATORY INFORMATION

The compounds in the product are not under the Montreal Protocol, the Stockholm Convention and the Rotterdam Convention.

16. OTHER INFORMATION

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