# Safety Data Sheet

Enacted data: 2014/6/9 Revised date: 2019/7/31

: May cause harm to breast-fed children

1. Product and Corporate Information

Reference number 5G-001

Product name FULLON MASK MA-1

Company name FURUTO INDUSTRIAL Co., LTD

Address 12-1 YOSHIMA INDUSTRIAL PARK, IWAKI City, FUKUSHIMA Prefecture

970-1144 JAPAN

Charge section Sales Planning Department or Sales Department

Telephone number +81-246-36-4001 FAX number +81-246-36-7157

Telephone number +81-246-36-7154

2. Hazards Identification

GHS classification

Physical and Chemical Hazards Flammable liquids

Health Hazards

Acute toxicity: oral : Not classified Acute toxicity: transdarmal : Not classified Acute toxicity: inhalation gas : Not classified Acute toxicity: inhalation vapor : Category 4 Acute toxicity: inhalation dust mist : Not classified Skin corrosion/irritation : Category 2 Serious eye damage/eye irritation : Category 2A Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Category 2 : Category 1A Genotoxicity

Specific target organ (single exposure)

Respiratory system : Category 2
Kidney : Category 2
Narcotic effects : Category 3
Central nervous system : Category 1

Specific target organ (repeated exposure)

Bone : Category 2
Nervous system : Category 1
Kidney : Category 1

Aspiration hazards : Classification not possible

Aquatic environmental hazards (acute) : Category 2
Aquatic environmental hazards (chronic) : Category 3

Hazards for ozone layer : Classification not possible

GHS label element



Signal word : DANGER

Hazards statement : Skin irritation

: Serious eye irritation : Harmful if inhaled (vaper) : May cause respiratory irritation

: May cause drowsiness or dizziness

: Suspected of causing cancer

: May damage fertility or the unborn child : May cause harm to breast-fed children : Cause damage to central nervous system

: May cause damage to the kidneys

: Cause damage to nervous system, respiratory system and kidneys through prolonged or repeated exposure

: Toxic to aquatic life

: long lasting harmful effects to aquatic life

Precautionary statement

[Prevention]

: Obtain special instructions before use

: Do not handle until all safety precautions have been read and

understood.

:Do not breathe dust / fume / gas / mist /vapors / spray

: Avoid contact during pregnancy / nursing. : Wash your hands often after handling.

:Do not eat, drink or smoke when using this product. :Use only outdoors or in a well-ventilated area.

: Avoid release to the environment.

: Wear protective gloves / protective clothing / protective glasses

/ protective surface.

### 3. Composition / information on ingredients

Mixture / Substance selection : Mixture

Ingredient and concentration

Ingredient name	CAS No.	Content(%)	
Polyvinylchloride	9002-86-2	20~26	
Toluene	108-88-3	18~24	
Methyl-ethyl-ketone	78-93-3	44~50	
Methyl-isobutyl-ketone	108-10-1	5.5 <b>~</b> 8.5	

# 4. First aid measures

If in eyes : Rinse cautiously with water foe several minutes.

: Remove contact lenses, remove it out if easy. And rinse, continue.

: If eye irritation persists, get medical advice / attention.

If on skin : Take off all contaminated clothing and shoes, rinse affected area with water

or tepid water with plenty water with soap.

: If skin irritation or exanthema occurs, get medical advice / attention.

If inhaled : Remove person to fresh air and keep comfortable for breathing.

: If feel unwell, get medical advice / attention.

: If in a breathing stop or dyspnea, loosen clothing, secure the breathing respiratory tract and practice artificial respiration. And get medical advice.

If swallowed : Wash mouse inside, and get medical advice / attention, immediately.

 $: \mbox{Because it is a volatile organic solvent, forcing it out increases the risk.} \\$ 

: Don't give anything by mouth to unconscious victims.

# 5. Fire-fighting measures

Extinguishing media : By water spray, powder medicine, carbon dioxide, dry sand, fire foam

Specific fire fighting method: Fire-fighting work should be carried out with appropriate protective

equipment from windward to avoid contact with harmful gases

(hydrochloric acid gas etc.).

: In the case of a large-scale fire in the vicinity, use water spray, foam

medicine, etc. to spray the surroundings from a distance.

: Avoid sticky water discharge.

#### 6. Accidental release measures

: In the case of a small amount, adsorb with sawdust, earth and sand, adsorption mat, etc. and collect in an empty container.

: If there is a large amount of leaked material, enclose the leaked area with soil, sandbags, etc., collect in an empty drum, etc., and make sure that the leaked material is not discharged into rivers or the like.

: Be careful because the spilled place is slippery.

: If there is an open flame or a source of high temperature ignition, remove it immediately.

: After recovery measures, if the surface is slippery, wash with detergent and wipe with a rag.

: If it leaks indoors, ventilate the spilled area and recover.

# 7. Handling and storage

# Handling

Instruction for the safe handling

: Handle with the suitable protector (glasses and impermeability graves, et al), and in a well-ventilated area.

: Do not leak, spill, or allow the vapor to escape.

:The tip of the hose piping etc. should be enough to drain and control so that there is no dripping.

: Transfer is performed after substitution with an inert gas such as nitrogen.

: Avoid hot matter, sparks, and flames and overheat.

#### Storage

Instruction for the

safe storage

: Store in a well-ventilated cool and dark place away from direct sunlight and water.

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: Make sure that the container is free of leaks and ensure that it does not tip over, fall, or collapse.

:Do not store in the same place as acid or alkali.

: Do not place near open heat sources such as boilers or high temperature heat sources.

: Keep container tightly closed to prevent the generation of steam.

: Oxidizing substances and peroxides should not be stored at the same place.

# 8. Exposure control / personal protection

#### Control parameters

(The data of this product is not set. Component data are shown for reference.)

Ingredient name	Adopted value(ppm)	
Toluene	20	
Methyl-ethyl-ketone	200	
Methyl-isobutyl-ketone	50	

Occupational Exposure Limits

Ingredient	ACGIH		Japanese Society of Occupational Health	
	TWA(ppm)	TWA(mg/m <sup>3</sup>	(ppm)	$(mg/m^3)$
Toluene	50	188	50	188
Methyl ethyl ketone	200 300 (U.L.)	590 858 (U.L.)	200	590
Methyl isobutyl ketone	20 75 (U.L.)	205 307 (U.L.)	50	200

Engineering controls : Caution: No fire

: It's desirable to install local exhaust ventilation system and/or general

ventilation systems

: Ensure the hand and eye-washing stations are installed near the working

area, and indicate the place.

Personal protection : Respirator: Use a gas mask (for organic gases) and, if the concentration is high,

use a respirator mask.

: Eye and face protection: Use protective glasses or a protective surface

(disaster prevention surface).

: General protective equipment: Use oil resistant (impervious) gloves, boots

and apron (for static protection).

# 9. Physical and chemical properties

Appearance : Viscous red liquid Flash point :1.0°C (Tag closed cup) :480°C (ref:Toluene) Fire point Explosion limit :1.2~7.1% (ref:Toluene) :110°C (ref:Toluene) Boiling point Solubility : Very small amount :-95°C (ref:Tluene) Melting point Specific gravity : 0.87 (ref:Toluene)

# 10. Stability and Reactivity

(Since there is no data for this product, data for toluene is shown as a reference.)

Stability : Stable under normal storage / handling condition,

Reaction of danger : It generates irritating gas when it is heated. Reacts violently with

or harmful oxidizing substances.

Condition of avoid : Heating
Danger of contact : Oxidizer
Product of danger : No knowledge

or harmful

#### 11. Toxicological information

: No data (See Section 2)

# 12. Environmental impact information

: No data (See Section 2)

#### 13. Disposal considerations

- : When burned, harmful gases such as hydrogen chloride are generated, so incinerate with an incinerator equipped with an exhaust gas treatment device.
- : When treating waste water containing this product, after conducting toxicity tests on activated sludge, etc., waste water is treated with activated sludge or the like.
- : In addition to the precautions described in section 7, observe the general precautions for highly flammable hazardous liquid.

# 14 Transport information

UN No. and UN class

UN class : Class 3:flammable liquid P.G2

UN No. :1993 (Medium flash point flammable liquid with no other hazards)

Product name : Not applicable

Special safety measures : Make sure that the container is free of leaks during transport, and load

it up so that it does not fall, fall, or damage, and ensure prevention of load

collapse

:In addition to the precautions described in section 7, observe the general

precautions for highly flammable hazardous liquid. : Avoid to carry this, with peroxides and oxidants.

# 15 Regulatory information (However in JAPAN)

Fire Service Act : Category IV :inflammable liquids :(ii) Class I petroleums

Industrial Safety and Health Act

Order for Enforcement of Industrial Safety and Health Act

: Appended Table 1:Dangerous Substances :(iv) Flammable substances

: Contains the substance to be labeled : Contains the substance to be notified

Ordinance on the Prevention of Organic Solvent Poisoning

: Second-class organic solvents

: Section 2 Regulations concerning Dangerous Goods Harmful Substances

Order for Enforcement of Industrial Safety and Health Act

: Specified Chemical Substances : Group-2 Substances

Law concerning Pollutant Release and Transfer Register / PRTR Law

: Contains the relevant substance

Ship Safety Act : Middle flash point flammable liquid (class 3.2)

#### 16. Other information

- i The "Safety Data Sheet" is a brief summary of the precautions for safe use of our products, and assumes normal handling.
- ii The "safety data sheet" is based on the findings up to the present and does not guarantee the completeness of the information, and may be revised as needed. Please be aware in advance.
- iii The information contained in the "Safety Data Sheet" does not guarantee the product specification or quality.
- iv Please refer to the "Safety Data Sheet" etc. for the conditions under which this product is used and consider at the user's responsibility.