SAFETY DATA SHEET

Creation Date: OCT.07.2019
Revision Date:

1.IDENTIFICATION

PRODUCT NAME **MKC ENAMEL 5Y7/0.7**

Company Name	TOKYO PAINT CO.,LTD.
Company Address	3435 Mida, Kohnosu-shi, Saitama-ken, 365-0062, Japan
Department	Quality control office
Name of The Contact Person	Quality control general manager
Telephone Number	+81-48-5963211
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Use Information	Industrial Metal Only
Reference Number	E-Z060-075-1

2.HAZARDS IDENTIFICATION

Classification of GHS

Physical Hazards		
Flammable Liquids		Category 2
Health Hazards		
Acute toxicity	Oral	Not classificd
	Dermal	Category 4
	Inhalation	Category 4
Skin corrosion/irritation		Category 2
Eye damage/eye irritation		Category 2
Respiratory sensitization		Classification not possible
Skin sensitization		Not classificd
Germ cell mutagenicity		Not classificd
Carcinogenicity		Category 2
Reproductive toxicity		Category 1
Specific target organ toxicity after single exposure		Category 1
Specific target organ toxicity following repeated exposure		Category 1
Aspiration toxicity		Classification not possible
Environmental Hazards		
Hazardous to the aquatic environment(Acute)		Category 2
Hazardous to the aquatic environment(Chronic)		Category 3
Hazardous to the ozone layer		Classification not possible

〔GHS Label Element〕

Signal Word **DANGER**

Hazards Statement
Highly flammable liquid and vapour
Harmful in contact with skin
Harmful if inhaled

Causes skin irritation　　Causes serious eye irritation
Suspected of causing cancer
May damage fertility or the unborn child
Causes damage to organs
Causes damage to organs through plolonged or repeated exposure
Very toxic to aquatic life　　Harmful to aquatic life with long lasting effects

Precautionary statements

Prevention:

- ・Do not used for improper purposes.
- ・Take precautionary measures against static discharge.
- ・Keep away from heat, sparks, open flames or hot surfaces. -No smoking.
- ・Use only non-sparking tools, explosion-proof electrical, ventilating, lighting or equipment.
- ・Do not breathe dust, fume, gas, mist, vapours or spray.
- ・Use only outdoors or in a well-ventilated area.
- ・Wear protective gloves, eye protection or face protection.
- ・Wash skin thoroughly after handling.
- ・Do not eat, drink or smoke when using this product.

Response

- ・In case of fire: Use dry sand, form, dry chemical or carbon dioxide for extinction.
- ・If swallowed：Get medical attention immediately.
- ・If inhaled：Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- ・If on skin：Take off immediately all contaminated clothing. Rinse skin with water or shower.
- ・If in eyes：Rinse cautiously with water for several minutes. ・Remove contact lenses, if present and easy to do. Continue rinsing.
- ・If skin irritation occurs, If eye irritation persists or If exposed or concerned：Get medical advice or attention.

Storage & Disposal

- ・Keep container tightly closed. ・Store in a well-ventilated place. ・Keep cool. ・Store locked up.
- ・Dispose of contents or container in accordance with local, regional, national or international regulations.

3.COMPOSITION/INFORMATION ON INGREDIENTS

Classification of Subsutance and Mixture　：Mixture
Chemical Name or Common Name　：Acryl-lacquer enamel (For Air drying)

Hazardous Ingredients and Composition

Component	CAS No.	Content(Wt%)
Toluene	108-88-3	20-30
Methyl Ethyl Ketone	78-93-3	5-10
Methyl Iso-Butyl Ketone	108-10-1	1-5
Ethyleneglycol Mono-butylether	111-76-2	1-5
1-Butyl Alcohol	71-36-3	5-10
Iso-Butyl Alcohol	78-83-1	1-5
Iso-Propyl Alcohol	67-63-0	1-5
Ethyl Acetate	141-78-6	1-5
Nitrocellulose	90004-70-0	1-5
Titanium Dioxide	13463-67-7	20-30
Iron oxide	51274-00-1	<1
Aluminum Silicate	1302-78-9	<1
Carbone Black	1333-86-4	<1

Composition	
Pigments	20-25
Resin	15-20
Solvents	50-55
Additives	1-5
Catalyst	0
Others	0

4.FIRST-AIDE MEASURES

Eyes : If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes for at least 15 minutes while holding eyelids apart and seek immediate medical attention.

Skin : Remove contaminated clothing. Flush exposed area with large amount of water. If skin is damage, apply a clean dressing and seek immediate medical attention. If skin is not damage, wash exposed area with soap and water. Launder contaminated clothing before reuse. If symptoms persist, seek medical attention. Remove contaminated shoes promptly, discard shoes saturated with this product.

Breathed : If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped give artificial respiration. Keep person warm, quiet and get medical attention.

Swallowed : Do not induce vomiting, keep person warm, quiet, and get medical attention. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis which can be fatal.

5.FIRE-FIGHTING MEASURES

Extinguishing Media :

Form, dry chemical, carbon dioxide.
Water may be unsuitable as an extinguishing medium, but helpful in keeping adjacent containers cool.

Hazardous Decomposition Products:

May form toxic materials, carbon dioxide and carbon monoxide, various hydrocarbons, etc.

Fire Fighting Procedures :

Firefighters and others exposed to vapors or products of combustion should wear self-contained breathing apparatus.

Unusual Fire and Explosion Hazards :

Vapors may form an explosive mixture in air.
Closed containers may rupture when exposed to extreme heat.

Special Fire and Explosion Hazards:

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.
All containers in the product should be grounded and / or bonded when it is handled or transferred. Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point.

6.ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Released or Spilled :

Absorb spill with an absorbent material such as sawdust, vermiculite or sand and place material into a closed container.
If large spill, eliminate all ignition sources (flares, flames, including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source.

Prevent from entering drains, sewers, streams or other bodies of water.
Prevent from spreading. If run-off occurs, notify authorities as required.
Absorb unrecoverable product.
Transfer contaminated absorbent, soil and other materials to containers for disposal.

Waste Disposal Method :

This material and containers should be treated as hazardous wastes based on the characteristic of ignitability and harmful as defined under federal regulations.
Dispose of in accordance with all applicable local, state and federal regulations.

7.HANDLING AND STORAGE

Precautions to be Taken in Handling and Storing :

Avoid prolonged or repeated inhalation of heated vapors or spray mists.
Keep away from heat or open flame.
Avoid prolonged or repeated skin contact.

Other Precautions :

Containers of this material may be hazardous when emptied, since emptied containers retain product residues (vapor, liquid, and / or solid), all hazard precautions given in the data sheet must be observed.

8.EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	Standard Control Concentration*	Acceptable Concentration**	ACGIH(TLV)
Toluene	20ppm	50ppm	20ppm
Methyl Ethyl Ketone	200ppm	200ppm	200ppm
Methyl Iso-Butyl Ketone	20ppm	50ppm	20ppm
Ethyleneglycol Mono-butylether	25ppm	20ppm	20ppm
1-Butyl Alcohol	25ppm	50ppm	20ppm
Iso-Butyl Alcohol	50ppm	50ppm	50ppm
Iso-Propyl Alcohol	200ppm	400ppm	200ppm
Ethyl Acetate	200ppm	200ppm	400ppm
Nitrocellulose	―	―	3mg/m3
Titanium Dioxide	―	―	10mg/m3
Iron oxide	―	―	5(Fe)mg/m3
Aluminum Silicate	―	―	―
Carbone Black	―	1mg/m3	3mg/m3

― Symbol indicates that there is no information.

*Health, Labour and Welfare Ministry of Japan **Ministry of Health, Labour and Welfare of Japan

Respiratory Protection :

Approved air supplied respirator such as a canister type respirator must be worn to prevent the inhalation of vapors or spray mists when the TLV is exceeded.
Engineering or administrative controls should be implemented to reduce exposure.

Ventilation :

General ventilation is required during normal use.
Local ventilation may be required during certain operations to keep exposure level below the limits listed in standard control concentration, acceptable concentration and ACGIH(TLV).
Engineering or administrative controls should be implemented to reduce exposure.

Protective Gloves :

Chemical resistant nitride, neoprene or rubber gloves required.

Eye Protection :

Wear face shield or chemical goggles.

Other Protective Equipment :

To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Eye wash station and safety shower should be available.

9.PHYSICAL AND CHEMICAL PROPERTIES

Appearance		:	Liquid
Color		:	Gray
Odor		:	Organic solvent odor
pH		:	–
Boiling Point*		:	77-171℃
Flash Point		:	4℃
Auto-ignition Point*		:	238℃
Explosion Limit	Lower	:	No data available
	Upper	:	No data available
Vapor density		:	No data available
Specific gravity		:	1.12
Solubility in Water		:	None

*Reference value

10.STABILITY AND REACTIVITY

Stability	Stable under normal usage.
Reactivity	May react with strong acid or strong oxidizing agent.
Incompatible conditions	Light and heat
Hazardous decomposition products	Carbon monoxide, nitric oxide and ext.
Another hazard information	Poverty of information

11.TOXICOLOGICAL INFORMATION

COMPONENT	Acute toxicity Oral LD50(rat)	Acute toxicity Skin LD50(rat)	Acute toxicity Inhalation Vaper LC50(rat)	Carcinogenicity IARC
Toluene	5,000 mg/kg	12,000 mg/kg	4,000 ppm	3
Methyl Ethyl Ketone	2,737 mg/kg	>5,000 mg/kg*	11,700 ppm	N/A
Methyl Iso-Butyl Ketone	2,080 mg/kg	>16,000 mg/kg*	2,000 ppm	2B
Ethyleneglycol Mono-butylether	470 mg/kg	220 mg/kg*	450 ppm	3
1-Butyl Alcohol	2,100 mg/kg	3,400 mg/kg*	–	N/A
Iso-Butyl Alcohol	2,596 mg/kg	2,523 mg/kg*	6,336 ppm	N/A
Iso-Propyl Alcohol	4,384 mg/kg	12,870 mg/kg*	27,908 ppm	3
Ethyl Acetate	4,940 mg/kg	>18,000 mg/kg*	14,640 ppm	N/A
Nitrocellulose	>5,000 mg/kg	–	–	N/A
Titanium Dioxide	>20,000 mg/kg	>10,000 mg/kg*	–	Unclassifiable
Iron oxide	–	–	–	N/A
Aluminum Silicate	–	–	–	N/A
Carbone Black	>8,000 mg/kg	–	–	2B

– Symbol indicates that there is no information.

*LD50(rb)

Another hazardous substance

GHS classification category reproductive toxicity Corresponding 1A:Toluene

Another hazardous information

We are not doing the safety test.

12.ECOLOGICAL INFORMATION

No data available at this time.

13.DISPOSAL CONSIDERATIONS

Make arrangement in accordance with all applicable local, state, federal regulations and fundamental spirit of the law.

14.TRANSPORT INFORMATION

UN Number	:	1263
Name & description	:	PAINT
IMDG Code	:	3
Packing Group	:	Ⅱ
General notes	:	No applicable to marine pollutants
		Handle the container politely.
		Do not put the container sideway and turn bottom up.

15.REGULATORY INFORMATION

Because this SDS has been prepared in accordance with Japanese law,
handle in accordance with applicable laws and regulations of the country handl with this product

16.OTHER INFORMATION

These data are offered in good faith as typical values and not as a product specification.
The recommended handling procedures are believed to be generally applicable; however, each user should review these recommendations in the specific content of the intended use.
Tokyo Paint Co,.Ltd. assumes no obligation or liability for the information given or results obtained, all such information being given and accepted at customer's risk.

15.REGULATORY INFORMATION (USA information)

SARA Title III § 313

Chemical name	CAS number	Contenet(Wt%)
Methyl Iso-Buthyl Ketone	108-10-1	1-5
Toluene	108-88-3	20-30
1-Butyl Alcohol	71-36-3	1-5
Ethyleneglycol Mono-buthylether	111-76-2	1-5
iso-Propyl Alchol	67-63-0	1-5