

SAFETY DATA SHEET

This safety data sheet complies with the requirements of: JIS Z 7253:2012, Japan

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Japan / English

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name MasterMet 2

40-6380-006, 40-6380-064 Product Code(s)

(M)SDS Number 1341314_J

Other means of identification

Synonyms No information available

No information available **Registration Number**

Recommended use of the chemical and restrictions on use

Laboratory Use Only Recommended Use

Uses advised against No information available

Details of the supplier of the safety data sheet

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2. HAZARDS IDENTIFICATION

GHS Classification

Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2
Category 2 Kidneys, Liver.	

Label elements





Signal word

Warning

Hazard statements

H361 - Suspected of damaging fertility or the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

H373 - May cause damage to the following organs through prolonged or repeated exposure: Kidneys, Liver.

Precautionary Statements - Prevention

Obtain special instructions before use

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

Wear protective gloves/protective clothing/eye protection/face protection

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

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

Mixture

Chemical name	Weight-%	Inventory - Japan - Existing and New Chemical Substances (ENCS)	ISHL No.	CAS No
Polyethylene glycol	10 - 30%	No information available	No information available	25322-68-3
Silica	10 - 30%	(1)-548	No information available	7631-86-9
Diethylene glycol	1 - 5%	No information available	No information available	111-46-6

Pollutant Release and Transfer Registry (PRTR)

Not applicable.

Industrial Safety and Health Law

ISHL Notifiable Substances - information (safety data sheet) to be supplied; Industrial Safety and Health Law enforcement order Table 9 (related to Industrial Safety and Health Law article 57-2 and ISHL Ordinance Article 34-2-4)

	Chemical name	ISHL Notifiable Substances	Threshold Values (%)
Γ	Silica	ISHL Notifiable Substances	0.1
	7631-86-9		

Poisonous and Deleterious Substances Control Law Not applicable



4. FIRST AID MEASURES

First aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash skin with soap and water.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Symptoms No information available.

5. FIRE-FIGHTING MEASURES

Flammable Properties Not flammable.

surrounding environment.

Unsuitable extinguishing media No information available.

Specific hazards arising from the

chemical

No information available.

Hazardous Combustion Products Carbon oxides.

Special Extinguishing Media Cool drums with water spray.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Ensure adequate ventilation. Use personal protective equipment as required. Evacuate

personnel to safe areas.

Other Information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions See Section 12 for additional Ecological Information.

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled

containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections See section 8 for more information. See section 13 for more information.



7. HANDLING AND STORAGE

Handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove

contaminated clothing and shoes. Ensure adequate ventilation.

Storage

Storage Conditions Store locked up.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure guidelinesThis product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Biological occupational exposure

limits

Not applicable

Engineering controls Showers

Eyewash stations

Ventilation systems.

Personal Protective Equipment

Eye/face protection No special protective equipment required.

Skin and body protectionWear suitable protective clothing.

Hand protection Wear suitable gloves.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental exposure controls No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical stateSlurryAppearanceWhiteOdorOdorless

ColorNo information availableOdor ThresholdNo information available

Property
pHValues
UNKNOWNRemarks Method

Melting / freezing point No data available None known

Boiling point / boiling range
No data available
No data available

Flash PointNo data availableNone knownEvaporation RateNo data availableNone knownFlammability (solid, gas)No data availableNone knownFlammability Limit in AirNone known

Upper flammability limit No data available



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Lower flammability limit No data available

Vapor pressureNo data availableNone knownVapor densityNo data availableNone known

Relative density No data available Water Solubility No data available

Solubility(ies) No data available None known Partition coefficient: n-octanol/water No data available None known Autoignition temperature No data available None known **Decomposition temperature** No data available None known No data available None known Kinematic viscosity No data available None known **Viscosity**

Explosive propertiesOxidizing properties
No information available
No information available

Other Information

Softening Point
Molecular Weight
VOC Content (%)
Liquid Density
Bulk Density
Particle Size
Particle Size
No information available

10. STABILITY AND REACTIVITY

Reactivity No information available.

Stability Stable under normal conditions.

Explosion Data

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None

Possibility of hazardous reactions
None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Incompatible materialsNone known based on information supplied.

Hazardous Decomposition Products Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms No information available.

Numerical measures of toxicity - Product Information



Unknown acute toxicity

30 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

30 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

35 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

35 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

35 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Numerical measures of toxicity - Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Silica 7631-86-9	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2.2 mg/L (Rat) 1 h
Diethylene glycol 111-46-6	= 12565 mg/kg (Rat)	= 11890 mg/kg (Rabbit)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	GHS-Carcinogenicity	IARC
Silica		Group 3
7631-86-9		

Legend:

IARC (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity Classification based on data available for ingredients. Contains a known or suspected

reproductive toxin.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Target Organ Effects Eyes. Respiratory system. Kidney. Liver.

Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Percentage for unknown hazards 30 % of the mixture consists of component(s) of unknown hazards to the aquatic

environment.

Ecotoxicity .

1	Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
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Polyethylene glycol	-	24h LC50: > 5000	EC50 = 100000 mg/L	=
		mg/L (Carassius	15 min	
		auratus)		
Silica	72h EC50: = 440 mg/L	96h LC50: = 5000	-	48h EC50: = 7600
	(Pseudokirchneriella	mg/L (Brachydanio		mg/L
	subcapitata)	rerio)		
Diethylene glycol	-	96h LC50: = 75200	EC50 = 29228 mg/L	48h EC50: = 84000
		mg/L (Pimephales	15 min	mg/L
		promelas)		

Persistence and Degradability

No information available.

Bioaccumulation

Component Information

Chemical name	Log Pow
Diethylene glycol	-1.98

Mobility in soilNo information available.MobilityNo information available.Other adverse effectsNo information available.

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

14. TRANSPORT INFORMATION

IMDG/IMO NOT REGULATED

ADR NOT REGULATED

IATANOT REGULATEDProper Shipping NameNON REGULATED

Japan

Hazard Class N/A

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

National Regulations

Japan

Pollutant Release and Transfer Registry (PRTR)

Not applicable



Industrial Safety and Health Law

Harmful Substances Whose Names Are to be Indicated on the Label

Harmful Substances - names to be indicated on the label; Industrial Safety and Health Law enforcement order Table 9 (related to Industrial Safety and Health Law article 57 and ISHL Ordinance Article 33)

ISHL Notifiable Substances

ISHL Notifiable Substances - information (safety data sheet) to be supplied; Industrial Safety and Health Law enforcement order Table 9 (related to Industrial Safety and Health Law article 57-2 and ISHL Ordinance Article 34-2-4)

Fire Service Law:

Verify that requirements related to using, handling, and storing substances subject to prohibition, authorization or restriction are met

Chemical name	Fire service law group	Hazardous material	Hazard rank
Diethylene glycol	4	Flammable liquids	Ш
111-46-6			

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (CSCL)

Not applicable

Air Pollution Control Law

Air pollutants with regulated emissions standards, Air Pollution Control Act article 3 Volatile organic compound per Air Pollution Control Law article 2, paragraph 4

International Regulations

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

International Inventories

TSCA Contact supplier for inventory compliance status.

DSL/NDSL Contact supplier for inventory compliance status.

EINECS/ELINCS Contact supplier for inventory compliance status.

ENCS Contact supplier for inventory compliance status.

KECL Contact supplier for inventory compliance status.

PICCS Contact supplier for inventory compliance status.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

16. OTHER INFORMATION

Prepared By Product Stewardship

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Revision Note No information available

Key or legend to abbreviations and acronyms used in the safety data sheet

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value - Skin designation

C Carcinogen

Disclaimer

This SDS complies with the requirements of JIS Z 7250:2010 and JIS Z 7252:2009 (Japan). The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



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End of Safety Data Sheet



