SAFETY DATA SHEET

MasterTop 1705 RAL6011 PART A

Version	Revision Date:	SDS Number:	Date of last issue: -
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SECTION 1: Identification of the hazardous chemical and of the supplier

Product identifier

Product name	:	MasterTop 1705 RAL6011 PART A
Chemical name	:	MasterTop 1705 PTA RESEDA green
CAS-No.	:	Not Assigned
Product code	:	000000000050214389

Manufacturer or supplier's details

Company	:	Master Builders Solutions Malaysia Sdn. Bhd
Address	:	No 8, Jalan Keluli 2, Kawasan Perindustrian Bukit Raja 41050, Klang, Selangor, Malaysia
Telephone	:	+60330821000
Emergency telephone	:	+1-813-248-0585
Telefax	:	+60333445330

SECTION 2: Hazards identification

Classification of the hazardous chemical

Skin irritation	:	Category 2
Eye irritation	:	Category 2
Skin sensitization	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 2

Label elements

Hazard pictograms :

Signal Word : Warning

Hazard Statements : H319 Causes serious eye irritation.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**

P273 Avoid release to the environment.
P260 Do not breathe dust or mist.
P272 Contaminated work clothing should not be allowed out of the workplace.
P264 Wash face, hands and any exposed skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P311 Call a POISON CENTER or doctor/ physician.
P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P391 Collect spillage.

Disposal:

P501 Dispose of contents/container to appropriate hazardous waste collection point.

Other hazards which do not result in classification

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

SECTION 3: Composition and information of the ingredients of the hazardous chemical

Chemical nature : epoxy resin
Fillers

Components

Chemical name	CAS-No.	Concentration (% w/w)
Reaction product: bisphenol-A-(epichlorhydrin)-Epoxy resin (number average molecular weight <= 700)	25068-38-6	>= 25 -< 50
Phenol, methylstyrenated	68512-30-1	>= 1 -< 3
dichromium trioxide	1308-38-9	>= 7 -< 15

SECTION 4: First aid measures

General advice : First aid personnel should pay attention to their own safety.
Remove contaminated clothing.

In case of skin contact : Wash thoroughly with soap and water
Under no circumstances should organic solvent be used.
If irritation develops, seek medical attention.

In case of eye contact : Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed : Rinse mouth and then drink 200-300 ml of water.

Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed	:	Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.
Notes to physician	:	Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media	:	Foam Water spray Dry powder Carbon dioxide (CO2)
Unsuitable extinguishing media	:	water jet

Physicochemical hazards arising from the chemical

Hazardous combustion products	:	harmful vapours nitrogen oxides fumes/smoke carbon black

Special protective equipment and precautions for fire-fighters

Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Specific extinguishing methods	:	The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.
Environmental precautions	:	Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.
Methods and materials for containment and cleaning up	:	Sweep/shovel up. Dispose of absorbed material in accordance with regulations.

SECTION 7: Handling and storage

Handling

Precautions for safe handling

Advice on protection against fire and explosion	:	Keep away from sources of ignition - No smoking. The relevant fire protection measures should be noted.
Advice on safe handling	:	Avoid skin contact.

No special measures necessary provided product is used correctly.

Storage

Conditions for safe storage, including any incompatibilities

Further information on storage conditions : Keep only in the original container in a cool, well-ventilated place.
Protect from direct sunlight.
Store protected against freezing.

Materials to avoid : Observe VCI storage rules.

SECTION 8: Exposure controls and personal protection

Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
dichromium trioxide	1308-38-9	TWA	0,5 mg/m3 (chromium)	MY PEL
		TWA value	0,5 mg/m3 (Chromium (Cr))	OEL (MY)
		TWA value (Inhalable fraction)	0,003 mg/m3 (chromium(III))	ACGIHTLV
Kaolin	1332-58-7	TWA (Respirable particulates)	2 mg/m3	MY PEL
		PEL (Respirable dust)	5 mg/m3	MY PEL
		PEL (Total dust)	10 mg/m3	MY PEL
		TWA value (Respirable fraction)	2 mg/m3	ACGIHTLV
		TWA value (Respirable fraction)	2 mg/m3	OEL (MY)
		TWA (Respirable particulate matter)	2 mg/m3	ACGIH
Silicon dioxide	7631-86-9	TWA value	10 mg/m3	OEL (MY)
Titanium dioxide	13463-67-7	TWA	10 mg/m3	MY PEL
		TWA value	10 mg/m3	ACGIHTLV
		TWA value	10 mg/m3	OEL (MY)
		TWA	10 mg/m3 (Titanium dioxide)	ACGIH

Individual protection measures, such as personal protective equipment

Eye/face protection : Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Skin protection	:	Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).
Hand protection		
Remarks	:	Chemical resistant protective gloves (EN 374) Manufacturer's directions for use should be observed because of great diversity of types. Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing. Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): butyl rubber (butyl) - 0.7 mm coating thickness fluoroelastomer (FKM) - 0.7 mm coating thickness Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN 374) polyvinylchloride (PVC) - 0.7 mm coating thickness chloroprene rubber (CR) - 0.5 mm coating thickness nitrile rubber (NBR) - 0.4 mm coating thickness
Respiratory protection	:	Wear respiratory protection if ventilation is inadequate. Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).
Hygiene measures	:	When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

SECTION 9: Physical and chemical properties

Appearance	:	paste
Color	:	green to brown
Odor	:	characteristic
pH	:	No data available
Boiling point	:	> 100 °C
Flash point	:	> 100 °C

Flammability (solid, gas)	:	not flammable
Self-ignition	:	not self-igniting
Upper explosion limit / Upper flammability limit	:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Lower explosion limit / Lower flammability limit	:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Vapor pressure	:	Not applicable
Density	:	1,4 - 1,5 g/cm3 (20 °C)
Bulk density	:	Not applicable
Solubility(ies)		
Water solubility	:	insoluble
Autoignition temperature	:	No data available
Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Explosive properties	:	Not explosive Not explosive
Oxidizing properties	:	not fire-propagating
Self-heating substances	:	It is not a substance capable of spontaneous heating.
Metal corrosion rate	:	No corrosive effect on metal.

SECTION 10: Stability and reactivity

Reactivity	:	No hazardous reactions if stored and handled as prescribed/indicated.
Chemical stability	:	The product is stable if stored and handled as prescribed/indicated.
Possibility of hazardous reactions	:	The product is stable if stored and handled as prescribed/indicated.
Conditions to avoid	:	See SDS section 7 - Handling and storage.
Incompatible materials	:	Strong acids Strong bases Strong oxidizing agents Strong reducing agents
Hazardous decomposition products	:	No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological information

Information on likely routes of exposure : None known.

Acute toxicity

Not classified based on available information.

Components:

Phenol, methylstyrenated:

Acute oral toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: Acute Oral Toxicity - Acute Toxic Class Method
Acute inhalation toxicity	:	LC50 (Rat): 4,92 mg/l Exposure time: 4 h Method: Acute Inhalation Toxicity
Acute dermal toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: Acute Dermal Toxicity

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Phenol, methylstyrenated:

Species	:	Rabbit
Result	:	Slightly irritating.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Components:

Phenol, methylstyrenated:

No aspiration hazard expected.

Further information

Product:

Remarks : Health injuries are not known or expected under normal use. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

Components:

Phenol, methylstyrenated:

Remarks : Health injuries are not known or expected under normal use.

SECTION 12: Ecological information

Ecotoxicity

Product:

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Components:

Phenol, methylstyrenated:

Toxicity to fish : LC50 (Fish): 28,8 mg/l
Exposure time: 96 h
Method: Fish, Acute Toxicity Test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia sp.): 14 - 51 mg/l
Exposure time: 48 h
Method: Daphnia sp., Acute Immobilisation Test.

Toxicity to algae/aquatic plants : EC50 (algae): 15 mg/l
Exposure time: 72 h
Method: Algae, Growth Inhibition Test modified for coloured test substances.

Persistence and degradability

Product:

Biodegradability : Remarks: Taking into consideration the properties of several ingredients, the product is estimated not to be readily biodegradable according to OECD classification.

Stability in water : Remarks: The product is slightly soluble in water. It can be eliminated from water by abiotic processes.

Components:

dichromium trioxide:

Biodegradability : Remarks: Not applicable

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Because of the product's consistency and low water solubility, bioavailability is improbable.

Components:

Phenol, methylstyrenated:

Bioaccumulation : Remarks: The product will not be readily bioavailable due to its consistency and insolubility in water.
No data available

Partition coefficient: n-octanol/water : log Pow: 8,43
Method: other (calculated)

Mobility in soil

Product:

Distribution among environmental compartments : Remarks: The substance will not evaporate into the atmosphere from the water surface.
Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.
Following exposure to soil, adsorption to solid soil particles is unlikely, therefore contamination of groundwater is expected.

Other adverse effects

Product:

Additional ecological information : Do not discharge product into the environment without control.
The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

SECTION 13: Disposal information

Disposal methods

Waste from residues : Observe national and local legal requirements.
The waste code in accordance with the European waste catalog (EWC) must be specified in cooperation with disposal agency/manufacturer/authorities.

Contaminated packaging	:	Residues should be disposed of in the same manner as the substance/product. Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

SECTION 14: Transport information

International Regulations

UNRTDG

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)
Class	:	9
Subsidiary risk	:	EHSM
Packing group	:	III
Labels	:	9 (EHSM)

IATA-DGR

UN/ID No.	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)
Class	:	9
Subsidiary risk	:	EHSM
Packing group	:	III
Labels	:	Miscellaneous, Environmentally hazardous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passenger aircraft)	:	964

IMDG-Code

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)
Class	:	9
Subsidiary risk	:	EHSM
Packing group	:	III
Labels	:	9 (EHSM)
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15: Regulatory information

Safety, health, and environmental regulations specific for the hazardous chemical

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.
Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.
Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

SECTION 16: Other information

Date format	:	dd.mm.yyyy

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIHTLV	:	American Conference of Governmental Industrial Hygienists - threshold limit values (US)
MY PEL	:	Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.
MY PEL	:	Malaysia. Factories and Machinery (Mineral Dust) Regulations - Permissible Exposure Limit
OEL (MY)	:	Occupational Exposure Limits (Malaysia)
ACGIH / TWA	:	8-hour, time-weighted average
ACGIHTLV / TWA value	:	Time Weighted Average (TWA):
MY PEL / TWA	:	Eight-hour time-weighted average airborne concentration
MY PEL / PEL	:	Permissible exposure limit (PEL)
OEL (MY) / TWA value	:	Time Weighted Average (TWA):

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumu-

lative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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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