





## SAFETY DATA SHEET (SDS)

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE SUPPLIER

(a) Product Identifier	<b>INDUSTRIAL PRIMER 785M, 785G, AND 786</b>
(b) Other means of identification	Oxide primer
(c) Recommended use and restrictions on use	For metal surface.
(d) Details of the principal supplier	KTH Paint Industries Sdn Bhd, No. 53, 55 & 57, Jalan Selat selatan 7/KS05, Perindustrian Sobena Jaya Pandamaran, 42000 Pelabuhan Klang, Selangor Darul Ehsan, Malaysia. Tel.: + 603-3168 2737/7898, 3165 9635 Fax: + 603-3168 6898
(e) Emergency phone number	+ 603-3168 2737

### 2. HAZARD IDENTIFICATION

<b>(a) Classification of substance/mixture and any nation or regional information</b>	
<b>Physical:</b> flammable liquids – category 2. <b>Health:</b> acute toxicity – category 4. <b>Environment:</b> chronic hazard – category 4.	
<b>(b) Label elements</b>	
Hazard Pictogram	
 	
Signal word: <b>Danger</b>	
Hazard statements	H225: Highly flammable liquid and vapour H302 (oral): Harmful if swallowed H312 (dermal): Harmful if in contact with skin H332 (inhalation): Harmful if inhaled H413: May cause long lasting harmful effects to aquatic life
Precautionary statements - prevention	P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P264 Wash hand thoroughly after handling. P270 Do not eat, drink, or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/ eye protection/face protection.
Precautionary statements - response	P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P303 + P361 + P353 IF ON SKIN: Remove/take off immediately all contaminated clothing. Rinse skin with water/ shower. P330 Rinse mouth. P363 Wash contaminated clothing before reuse.

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	P370 + P378 In case of fire: Use ABC powder for extinction.
Precautionary statements - storage	P403 + P235 Store in a well-ventilated place. Keep cool.
Precautionary statements - disposal	P501 Dispose of contents/container to in accordance with local/international regulation
<b>(c) Others hazards</b>	Not known

### 3. COMPOSITION AND INFORMATION OF THE INGREDIENTS

<b>(a) Substance</b>	Not applicable				
<b>(b) Mixtures</b>					
Ingredient name	CAS number	Classification Code*	H-code*	EINECS #	%
Calcium Carbonate	1317-65-3	-	-	-	40 max
Alkyd Resin	63148-69-6	-	-	-	50 - 60
Pigments	-	-	-	-	15 – 30
Additive	-	-	-	-	< 2.5
Aromatic Solvent	1330-20-7	Flam. Liq. 3 Acute Tox. 4 (inh) Acute Tox. 4 (dermal) Skin Irrit. 2	H226 H332 H312 H315	215-535-7	20 – 35

\* According to the list of classified chemicals specified in Part 1 of the Industry Code of Practice on Chemicals Classification and Hazard Communication.

### 4. FIRST AID MEASURES

<b>(a) Description of first aid measures</b>	
Inhalation	Remove affected person to fresh air; provide oxygen if breathing is difficult; if affected person is not breathing, administer CPR and seek emergency medical attention.
Skin	Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.
Eye contact	Remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention.
Ingestion	Give two glasses of water for dilution; induce vomiting by sticking fingers down throat; never give anything by mouth to an unconscious person; seek medical attention.
<b>(b) Most important symptoms/effects, acute and delayed</b>	
Information for health personnel	Treat Symptomatically. Do not give victim anything to drink if he is unconscious.
<b>(c) Indication of any immediate medical attention and special treatment needed</b>	
Specific details on antidotes	No recommendation given.

### 5. FIRE-FIGHTING MEASURES

<b>(a) Extinguishing media</b>	Carbon dioxide, water fog, dry chemical, chemical foam. DO NOT use water jet.
<b>(b) Specific hazards arising from the chemical</b>	
Fire and explosion hazards	Closed containers can explode due to buildup of pressure when exposed to extreme heat. Vapors may cause a flash fire or ignite explosively. Vapors may travel a considerable distance to a source of ignition and flash back.
Hazardous combustion products	Fire creates: Smoke, fumes, oxides of carbon, i. e., .Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ).
<b>(c) Special protective equipment and precautions for fire-fighters</b>	Self - contained respiratory equipment; cool containers to prevent pressure buildup and explosion when exposed to extreme heat. Caution - material is flammable.

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## 6. ACCIDENTAL RELEASE MEASURES

<b>(a) Personal precautions, protective equipment and emergency procedures</b>	Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Ventilate well. Stop leak if possible without risk. Avoid contact with skin and eyes. Do not breathe vapour.
<b>(b) Environmental precautions</b>	Avoid discharge into lakes, ponds, streams, or public waters.
<b>(c) Methods and material for containment and cleaning.</b>	Confine and absorb with sand, earth or other non-combustible material; place material into approved containers for disposal

## 7. HANDLING AND STORAGE

<b>(a) Precautions for safe handling</b>	Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures.
<b>(b) Conditions for safe storage, including any incompatibilities.</b>	CAUTION - FLAMMABLE - keeps away from all sources of ignition. "Empty" containers may contain residue, which may form explosive vapors. Do not weld or cut near empty container that has not been professionally reconditioned. Use non-sparking tools when opening and closing containers. Maintain well-ventilated work areas to minimize exposure when handling this material.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

<b>(a) Control parameters</b>								
Ingredient name	NIOSH				ACGIH			
	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3
Aromatic solvent	100	435	150	655	100	-	150	-
<b>(b) Appropriate engineering controls</b>								
A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended practices, most recent edition, for details. Use explosion-proof equipment.								
<b>(c) Individual protection measures</b>								
<u>Personal respirators (NIOSH approved)</u>								
If the exposure limit is exceeded, a half-face organic vapor respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece organic vapor respirator may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. Warning: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.								
<u>Skin protection</u>								
Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.								
<u>Eye protection</u>								
Maintain eye wash fountain and quick-drench facilities in work area. Use chemical safety goggles and/or full-face shield where dusting or splashing of solutions is possible.								
<u>Work/hygienic practices</u>								
Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.								

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>(a) Physical state</b>	Liquid
<b>(b) Colour</b>	Colour
<b>(c) Odour</b>	Solvent-like, mild
<b>(d) Odour threshold</b>	Not established
<b>(e) pH</b>	Not applicable
<b>(f) Melting point</b>	Not applicable
<b>(g) Freezing point</b>	Not applicable
<b>(h) Initial boiling point and boiling range</b>	Not applicable

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(i) Flash point	Closed cup: 26°C
(j) Evaporation rate	Not applicable
(k) Flammability (solid, gas)	Highly flammable in the presence of open flames, sparks and static discharge and heat.
(l) Upper flammability or explosive limits	7 vol %
(m) Lower flammability or explosive limits	0.8 vol %
(n) Vapour pressure	0.01 kPa
(o) Vapour density	Not applicable
(p) Relative density	0.97 – 1.35
(q) Solubility(ies)	Not soluble in water
(r) Partition coefficient : n-octanol/water	Not applicable
(s) Auto-ignition temperature	Lowest known value: 333°C (631.4°F)
(t) Decomposition temperature	Not applicable
(u) Viscosity	Not applicable

## 10. STABILITY AND REACTIVITY

<b>(a) Reactivity</b>	Heating may cause a fire.
<b>(b) Chemical stability</b>	Product is stable under normal operating and storage conditions.
<b>(c) Possibility of hazardous reactions</b>	Not known
<b>(d) Condition to avoid</b>	Extreme temperatures, open flames, spark.
<b>(e) Incompatible materials</b>	Water, strong oxidizers, strong acids, strong alkalis.
<b>(f) Hazardous decomposition products</b>	Decomposition will not occur if handle and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.

## 11. TOXICOLOGY INFORMATION

<b>(a) Information on the likely routes of exposure</b>	Eye contact, inhalation, skin contact, ingestion		
<b>(b) Symptoms related to the physical, chemical and toxicological characteristics;</b>			
Eye contact	pain or irritation, watering, redness		
Inhalation	No specific data.		
Skin contact	Irritation, redness		
Ingestion	No specific data.		
<b>(c) Delayed and immediate effects and also chronic affects from short and long term exposure;</b>			
	Short term exposure	Long term exposure	
Potential immediate effects	Not available	Not available	
Potential delayed effects	Not available	Not available	
Potential chronic health effects	Not available	Not available	
<b>(d) Numerical measures of toxicity (such as acute toxicity estimates).</b>			
Ingredient name	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)	Hazard Symbol
Aromatic solvent	2000 mg/kg; oral-rat	> 5000 ppm /1H; Inhalation- rat	F, Xn

## 12. ECOLOGICAL INFORMATION

<b>(a) Ecotoxicity</b>			
<b>Ingredient name</b>	<b>Result</b>	<b>Species</b>	<b>Exposure</b>
Aromatic solvent	Acute IC50 >3.2 mg/l	Algae	72 hours
	Acute EC50 8.5 mg/l	Daphnia	48 hours
	Acute LC50 2 mg/l	Fish	96 hours
<b>(b) Persistence and degradability</b>			
<b>Ingredient name</b>	<b>Aquatic half-life</b>	<b>Photolysis</b>	<b>Biodegradability</b>
Aromatic solvent	3.12	22	low
<b>(c) Bioaccumulative potential</b>			

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Ingredient name	LogP <sub>ow</sub>	BCF	Potential
Aromatic solvent	3.12	22	low
<b>(d) Mobility in soil</b>		Soil/water partition coefficient (K <sub>oc</sub> ) is not available	
<b>(e) Other adverse effects</b>		No known significant effects or critical hazards.	

### 13. DISPOSAL CONSIDERATIONS

<b>Waste treatment method</b>	
Specify the appropriate methods of disposal	The generation of waste should be avoided or minimized wherever possible. Residues of the product is listed as hazardous waste. Dispose of according to all state and local applicable regulations. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Spillage, remains, discarded clothes and similar should be discarded in a fireproof container.
Product classified as hazardous waste	<b>Yes</b>
Packaging classified as hazardous waste	<b>Yes</b>

### 14. TRANSPORT INFORMATION

<b>(a) UN number</b>	UN1263
<b>(b) UN proper shipping name</b>	Paint
<b>(c) Transport Hazard Class(es)</b>	UN Class 3 FLAMMABLE LIQUID
<b>(d) Packing group, if applicable</b>	III
<b>(e) Environmental hazards (e.g. marine pollutant)</b>	No
<b>(f) Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)</b>	Not applicable
<b>(g) Special precautions which a user needs to be aware of, or needs to comply with, in connection either within or outside their premises.</b>	Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### 15. REGULATORY INFORMATION

<b>Safety, health and environmental regulations specific for the chemical</b>			
This product is a "Hazardous Chemical" as it uses the ingredient classified as hazardous under the list of classified chemicals specified in Part 1 of the Industry Code of Practice on Chemicals Classification and Hazard Communication.			
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.			
HMIS III rating			
Health: 1	Flammability: 3	Physical hazard: 1	PPE: Safety glasses, gloves
<b>Other label information</b>	Not available		
<b>Legislation and regulations</b>	None of the component are listed under EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances of very high concern.		

### 16. OTHER INFORMATION

<b>(a) SDS number</b>	M-0021
<b>(b) Date of preparation of the SDS;</b>	21/07/2018
<b>(c) Date of revision of the SDS</b>	21/07/2018, version 1.00
<b>(d) Date of previous issue</b>	-
<b>(e) Key literature references and sources for data used to compile the SDS</b>	MSDS's and SDS for individual raw material, ICOP.
<b>(f) Key/legend to the abbreviations and acronyms used in the SDS</b>	
ATE = Acute Toxicity Estimate	BCF = Bio-concentration Factor
CAS number = Chemical Abstract Service registry number	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association	IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods	LogP <sub>ow</sub> = logarithm of the octanol/water partition coefficient
UN = United Nations	MARPOL 73/78 = International Convention for the

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F - Highly flammable	Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
T - Toxic	
Xn - Harmful	PPM - parts per million (mg/kg)
Xi - Irritant	STEL - short-term exposure limits
TWA – time-weighted average	PEL - Permissible exposure limit
Niosh - National Institute for Occupational Safety and Health	ACGIH - American Conference of Governmental Industrial Hygienists
LD50 is defined as the lethal dose at which 50% of the population if killed in a given period of time;	REACH - Registration, Evaluation, Authorisation and restriction of Chemicals of the EU
LC50 is the lethal concentration required to kill 50% of the population.	29 CFR 1910.1200 – Hazard communication of the Occupational Safety and Health Standard
CFR - Code of Federal Regulations	EU – European Union
Flam. Liq. 3 - Flammable liquids category 3 Acute Tox. 4 (inh) - Acute toxicity category 4 inhalation Acute Tox. 4 (dermal) - Acute toxicity category 4 Skin Irrit. 2 - Skin corrosion or irritation category 2 STOT SE 3 - Specific target organ toxicity – single exposure category 3	H226 Flammable liquid and vapour H336 May cause drowsiness or dizziness H332 Harmful if inhaled H312 Harmful if in contact with skin H315 Causes skin irritation
<b>(g) Other information</b>	None known
Disclaimer: This information is based on our present states knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for – a particular application.	

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