

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier		
Product Name	2K MEDIUM SLOW 2:1 CLEAR	
Product code	TC 2010	
CAS No.	Not applicable.	
1.2 Relevant identified uses of the subst	ance or mixture and uses advised against	
Identified Use(s)	Paint for professional use.	
Uses Advised Against	Not known.	
1.3 Details of the supplier of the safety data sheet		
Company Identification	TOA PAINT (M) SDN BHD	
Address of Manufacturer	LOT 37625, JALAN 2/37A,	
	TAMAN BUKIT MALURI,	
	OFF JALAN KEPONG,	
	52100 KUALA LUMPUR,	
	MALAYSIA.	
Telephone	+603-62721346 (Office hours)	
	6016-3375428 (After office hours)	
E-mail	admin@toapaint.com.my	
Website	http://www.toapaint.com.my	
1.4 Emergency telephone number		
Company	+603-62721346 (Office hours)	
	6016-3375428 (After office hours)	

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Occupational Safety and Health	Flam. Liq. 2; Highly flammable liquid and vapour.
(Classification, Labelling and Safety Data	Skin Irrit. 2; Causes skin irritation.
Sheet of Hazardous Chemicals)	Skin Corrosion / irritation. 2; May cause skin irritation.
Regulations 2013 (CLASS Regulations)	Serious Eye Damage or Eye Irritation. 2; Cause serious eye irritation.
	Carcinogenicity. 1
	Reproductive Toxicity. 2
	Acute Toxicity: Oral. 4; Harmful if swallowed
	Dermal. 4; Harmful if contact with skin
	Inhalation. 4; Harmful if inhaled
	Specific Target Organ Toxicity (single exposure). 3
	Specific Target Organ Toxicity (repeated exposure). 1
	Aspiration Hazard. 1
2.2 Label elements	
Product Name	2K MEDIEUM SLOW 2:1 CLEAR

Product code

TC 2010



Hazard Pictogram(s)



Signal Word(s)	Danger.
Hazard Statement(s)	H225: Highly flammable liquid and vapour.
	H303: May be harmful if swallowed.
	H304: May b fatal if swallowed and enters airways.
	H313: May be harmful in contact with skin.
	H315: Causes skin irritation.
	H317: May cause an allergic skin reaction.
	H319: Cause serious eye irritation.
	H332: Harmful if inhaled (vapour).
	H335: May cause respiratory irritation.
	H336: May cause drowsiness or dizziness.
	H350: May cause cancer.
	H372: Causes damage to organs through prolonged or repeated exposure.
Precautionary Statement(s)	P201: Obtain special instructions before use.
	P202: Do not handle until all safety precautions have been read and understood.
	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition
	sources. 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.
	P260: Do not breathe dust/fume/gas/mist/ vapours/spray.
	P261: Avoid breathing vapours/spray.
	P264: Wash hand, mouth, etc thoroughly after handling.
	P270: Do not eat, drink, or smoke when using this product.
	P271 Use only outdoors or in a well-ventilated area.
	P273: Avoid release to the environment.
	P280: Wear protective gloves/protective clothing/eye protection/face protection.
	P281: Use personal protective equipment as required.
	P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or
	doctor/physician.
	P302+P352: IF ON SKIN: Wash with plenty of water/soap.
	P303 + P361 + P353: IF ON SKIN (or hair): Remove/take off immediately all
	contaminated clothing. Rinse skin with water/shower.
	P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position
	comfortable for breathing.
	P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue rinsing.



ACCORDING TO THE OCCUPATIONAL SAFETY AND HEALTH (CLASSIFICATION, LABELLING AND SAFETY DATA SHEET OF HAZARDOUS CHEMICALS) REGULATIONS 2013 (CLASS REGULATIONS) P308 + P313: IF exposed or concerned: Get medical advice/attention. P312: Call a POISON CENTER or doctor/physician if you feel unwell. P314: Get medical advice/attention if you feel unwell. P321: Specific treatment (see on First Aid Measures). P331: Do NOT induce vomiting. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P337 + P313: If eye irritation persists: Get medical advice/attention. P362: Take off contaminated clothing and wash before reuse. P370+P378: In case of fire: Use polar resistant foam, CO2 or dry powder to extinguish. P403 + P233: Store in a well-ventilated place. Keep container tightly closed. P403 + P235: Store in a well-ventilated place. Keep cool. P405: Store locked up. P501: Dispose of contents/container to appropriate waste site or reclaimer in accordance with local/regional/nation or national regulations. 2.3 Other hazards None known. 2.4 Additional Information For full text of H/P Statements see section 16.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

		0/ \ \ / \ \ /	Lissand Otatamant(s)
HAZARDOUS INGREDIENT(S)	CAS No.	%W/W	Hazard Statement(s)
Butyl Ester	123-86-4	15-20	Flam. Liq. 3 H226
			STOT- Single Exposure 3. H336
Dimethylbenzene	1330-20-7	3-5	Flam. Liq. 3 H226
			Acute Tox. 4 H312
			Skin Irrit. 2 H315
			Acute Tox. 4 H332
Ethylene Glycol Mono-ethyl Ether	111-15-9	5-8	Flam. Liq. 3 H226
Acetate			Acute Tox. 4 H312
			Acute Tox. 4 H302
			Reproductive Tox. 1B H360
			Acute Tox. 4 H332
Solvent naphtha (petroleum), light	64742-95-6	15-25	Flam. Liq. 3 H226
aromatic			Acute Tox. 4 H312
			Acute Tox. 4 H302
			Reproductive Tox. 1B H360
			Acute Tox. 4 H332
Acrylic Resin	N/A	40-50	Flam. Liq. 3 H226
			Skin Irrit. 2 H315



4. SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing.	
Skin Contact	Wash with plenty of water/soap. Take off immediately all contaminated clothing and	
	wash it before reuse. Do not use solvents or diluting agents for skin cleaning.	
	If skin irritation or rash occurs: Get medical advice/attention.	
Eye Contact	Flush eyes with water for at least 15 minutes while holding eyelids open. If	
	symptoms persist, obtain medical attention.	
Ingestion	Do not induce vomiting. Seek medical treatment.	
4.2 Most important symptoms/effects, acute and delayed		
	May cause an allergic skin reaction. Will cause skin irritation.	
4.3 Indication of immediate medical attention and special treatment needed, if necessary		
	Treat symptomatically.	

5. SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media	
Suitable Extinguishing media	Extinguish with carbon dioxide, dry chemical, foam or water spray.
Unsuitable extinguishing media	Water jet spray.
5.2 Special hazards arising from the sul	ostance or mixture
	Highly flammable liquid and vapour. Decomposes in a fire giving off toxic fumes:
	Carbon monoxide, Carbon dioxide.
5.3 Special protective equipment and protective	recautions for fire fighters
	Fire fighters should wear complete protective clothing including self-contained
	breathing apparatus. Dike fire control water for later disposal.
6. SECTION 6: ACCIDENTAL RELEAS	EMEASURES
6.1 Personal precautions, protective eq	uipment and emergency procedures
	Provide adequate ventilation. Avoid breathing vapours. Use non-sparking ventilation
	systems, approved explosion-proof equipment, and intrinsically safe electrical
	systems. Ensure full personal protection (including respiratory protection) during
	removal of spillages.
6.2 Environmental precautions	
	Avoid release to the environment. Spillages or uncontrolled discharges into
	Avoid release to the environment. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.
6.3 Methods and material for containme	watercourses must be alerted to the appropriate regulatory body.
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6.4 Reference to other sections



See Also Section 8, 13.

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing vapours/spray. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wash hands and exposed skin	
	thoroughly after handling.	
7.2 Conditions for safe storage, including any incompatibilities		
	Store in a well-ventilated place. Keep cool. Keep container tightly closed.	
Storage temperature	5 – 35 °C	
Storage life	Stable under normal conditions.	
Incompatible materials	Strong oxidising agents, Alkaline, Acids, Amines.	

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Occupational Exposure Limits						
SUBSTANCE	CAS No.	LTEL (8 hr TWA	LTEL (8 hr TWA	STEL	STEL	Note
		ppm)	mg/m³)	(ppm)	(mg/m³)	
Butyl Acetate	123-86-4	150	713	200	950	MY PEL
Dimethylbenzene	1330-20-7	100	434	125	543	NZ OEL
Ethylene Glycol Mono-ethyl Ether	111-15-9	5	-	10	-	ACGIH
Acetate						
Solvent naphtha (petroleum), light	64742-95-6	-	100	-	-	EU
aromatic						HSPA

Source: Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations

8.2 Exposure controls

8.2.1. Appropriate engineering controls Use with ventilation, local exhaust ventilation or breathing protection. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Individual protection measures, such as personal protective equipment



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	Eye Protection	Wear protective eye glasses for protection against liquid splashes.
	Skin protection	Wear protective clothing and gloves: Impervious gloves.
	Respiratory protection	During spraying wear suitable respiratory equipment: Always wear a self-contained breathing apparatus or full-face airline respirator when using this chemical. For operations other than spraying: A suitable mask with filter type A may be appropriate.
	Thermal hazards	Not applicable.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical	properties
Appearance	Liquid.
Colour	Clear.
Odour	Solvent odour.
Odour threshold	Not established.
рН	Not applicable.
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	60 °C
Flash Point	28 °C (DIN 53213/ISO 1523)
Evaporation rate	Not applicab
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	1.0 – 7.0 Vol-%
Vapour pressure	Not applicable.
Vapour density	Heavier than air
Density	0.97 – 1.00 g/cm³ @ 20°C (DIN 53217/ISO 2811)
Relative density	Not available.
Solubility(ies)	Solubility (Water) : Very slightly soluble.
	Solubility (Other) : Miscible with most organic solvents.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	268°C (DIN 51794 based on organic solvent content)
Decomposition Temperature (°C)	Not available.
Viscosity	35 - 45 s @ 23°C (ASTM D1200)
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
9.2 Other information	
Solvent separation test	<3 %

9.1 Information on basic physical and chemical properties



ACCORDING TO THE OCCUPATIONAL SAFETY AND HEALTH (CLASSIFICATION, LABELLING AND SAFETY DATA SHEET OF HAZARDOUS CHEMICALS) REGULATIONS 2013 (CLASS REGULATIONS) 10. SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	
		None anticipated. Mixture reacts slowly with water resulting evolution of carbon
		dioxide. Evolution of carbon dioxide in closed containers causes overpressure and
		produces a risk of bursting. Reacts with amines or alcohols which cause exothermic
		reactions.
10.2	Chemical Stability	
		Stable under normal conditions.
10.3	Possibility of hazardous reactions	
		No hazardous reactions known if used for its intended purpose.
10.4	Conditions to avoid	
		Avoid heating temperature above 30 °C.
10.5	Incompatible materials	
		Strong oxidising agents, Alkaline, Acids, Amines.
10.6	Hazardous decomposition products	
		This product decomposed on heating producing their oxide or monomers.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Butyl Ester	
Acute toxicity - Oral (rat)	LD ₅₀ > 7437mg/kg
Acute toxicity - Dermal (rabbit)	LD ₅₀ > 5000mg/kg
Acute toxicity - Inhalation	LC ₅₀ > 21mg/L (4 hours)
Dimethylbenzene	
Acute toxicity – Oral (rat)	LD₅₀ > 200mg/kg
Acute toxicity – Dermal (rabbit)	LD ₅₀ > 2000mg/kg
Acute toxicity – Inhalation – (rat)	LC ₅₀ > 20mg/L (4 hours)
Ethylene Glycol Mono-ethyl Ether Acetate	
Acute toxicity – Oral (rat)	LD₅₀ > 2700 mg/kg
Acute toxicity – Dermal (rabbit)	Not available
Solvent naphtha (petroleum), light aromatic	
Acute toxicity – Oral (rat)	LD ₅₀ > 8400mg/kg
Acute toxicity – Dermal (rabbit)	LD ₅₀ > 2000mg/kg
Acute toxicity – Inhalation – (rat)	LC ₅₀ > 5.2mg/L (4 hours)
Skin corrosion/irritation	Moderate skin irritation. 24 hours 500mg exposure (rabbit)
Serious eye damage/irritation	Insufficient to classified.
Skin sensitization data	May cause an allergic skin reaction. No data.
Respiratory sensitization data	May cause irritation to the respiratory system.
Germ cell mutagenicity	There is no evidence of mutagenic potential.



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Carcinogenicity	No evidence of carcinogenicity.
Reproductive toxicity	None anticipated.
Lactation	Not classified.
STOT - single exposure	Category 3. Narcotic effects
STOT - repeated exposure	Category 1. Central nervous system.
Aspiration hazard	Category 1.
Numerical measures of toxicity	No data available on the mixture itself
(acute toxicity estimation – ATE)	Symptoms related to the physical, chemical and toxicological characteristics Based on the properties of the isocyanate components and considering toxicological data on similar products, the following applies: This formulation may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and a tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorption, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Components of the product may be absorbed into the body through the skin.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity
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	Low toxicity to aquatic organisms.	
Toxicity - Aquatic invertebrates	Not known.	
Toxicity - Fish	Not known.	
Toxicity - Algae	Not known.	
Toxicity - Sediment Compartment	Not classified.	
Toxicity - Terrestrial Compartment	Not classified.	
12.2 Persistence and Degradation		
	Part of the components are biodegradable.	
12.3 Bioaccumulative potential		
	The product has low potential for bioaccumulation.	
12.4 Mobility in soil		
	Very slightly soluble. The product is predicted to have low mobility in soil.	
12.5 Other adverse effects		
	Not known.	
13. SECTION 13: DISPOSAL CONSIDERATIONS		

13.1 Disposal methods	
	Dispose of contents/container to: Suitable incineration plant.
	Recycle only completely emptied packaging.
13.2 Additional Information	
	Disposal should be in accordance with local, state or national legislation.
14. SECTION 14: TRANSPORT INFORMATION	



14.1 UN number		
UN No.	1263	
14.2 UN proper shipping name		
UN proper shipping name	PAINT RELATED MATERIAL	

14.3 Transport hazard class(es)				
ADR/RID				
ADR/RID Class	3			
ADR Classification Code	F1			
Special Provisions	163 640D 650			
Limited Quantities	5 L			
Excepted Quantities	E2			
Emergency Action Code	•3YE			
Mixed Packing Instructions for Packages	P001 IBC02 R001			
Special Packing Provisions for Packages	PP1			
Mixed Packing Instructions for Packages	MP19			
Packing Instructions for Portable Tanks	T4			
Special Provisions for Portable Tanks	TP1 TP8 TP28			
Tank Code for Tanks	LGBF			
Special Provisions for Tanks	Not applicable			
Vehicle for Tank Carriage	FL			
ADR Transport Category	2			
Tunnel Restriction Code	D/E			
Special Provisions for Carriage -	Not applicable			
Packages				
Special Provisions for Carriage - Bulk	Not applicable			
Special Provisions for Carriage - Loading,	Not applicable			
Unloading and Handling				
Special Provisions for Carriage -	S2 S20			
Operation				
ADR HIN	33			
IMDG				
IMDG Class	3			
Special Provisions	163 640D 650			
Limited Quantities	5 L			
Excepted Quantities	E2			
Mixed Packing Instructions for Packages	P001 IBC02 R001			
Special Packing Provisions for Packages	PP1			
Packing Instructions for Portable Tanks	T4			
Special Provisions for Portable Tanks	TP1 TP8 TP28			
IMDG EMS	F-E,			
Stowage and Handling	A			
Segregation	Not determined			
ICAO/IATA				



	SHEET OF HAZARDOUS CHEMICALS) REGULATIONS 2013 (CLASS REGULATIONS)		
	Excepted Quantities	E2	
	Passenger and Cargo Aircraft Limited	Y341	
	Quantities Packing Instructions		
	Passenger and Cargo Aircraft Limited	1L	
	Quantities Max net Qty		
	Passenger and Cargo Aircraft Packing	353	
	Instructions		
	Passenger and Cargo Aircraft Max net	5L	
	Qty		
	Cargo Aircraft Packing Instructions	364	
	Cargo Aircraft Max net Qty	60L	
	Special Provisions	A72	
	Emergency Response Guidebook (ERG)	3L	
	Code		
	Labels		
	Labels	3	
	14.4 Packing group, if applicable	•	
	Packing group	П	
	14.5 Environmental hazards		
	Environmental hazards	Not classified as a Marine Pollutant.	
	14.6 Special precautions for user		
	Special precautions for user	Confirm there is no breakage, corrosion, or leakage from the container before	
		shipping. Be sure to prevent damage to cargo by loading so as to avoid falling,	
		dropping, or collapse.	
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code			
		No information available	
		_	

14.8 Hazchem or Emergency Action Code

No information available

15. SECTION 15: REGULATORY INFORMATION

This SDS has been prepared in accordance to The Industry Code of Practice on Chemical Classification and Hazard Communication 2014 (ICOP) and The Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 (CLASS Regulations).

15.1 Safety, health, and environmental regulations specific for the hazardous chemical in question

Part 1 List of Classified Chemical, ICOP Xylene (1330-20-7)

15.2 National regulations

Not known.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

1-16



Hazard Pictogram(s) GHS02 GHS08 GHS07 Hazard classification Acute Tox. 4 : Acute toxicity, Category 4 Flam. Liq. 3 : Flammable liquid, Category 3 Skin Irrit. 2 : Skin corrosion/irritation, Category 2 Skin Sens. 1 : Skin sensitization, Category 1 Hazard Statement(s) H225: Highly flammable liquid and vapour. H226: Flammable liquid and vapour. H312: Harmful in contact with skin. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H332: Harmful if inhaled. Precautionary Statement(s) P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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. P261: Avoid breathing vapours/spray. P264: Wash hands and exposed skin thoroughly after handling. P272: Contaminated work clothing should not be allowed out of the workplace. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of water/soap. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P321: Specific treatment (see on this label). P332+P313: If skin irritation occurs: Get medical advice/attention. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash it before reuse. P370+P378: In case of fire: Use polar resistant foam, CO2 or dry powder to extinguish. P403+P235: Store in a well-ventilated place. Keep cool. P501: Dispose of contents in accordance with local, state or national legislation. ADN : European Agreement concerning the International Carriage of Dangerous Acronyms Goods by Inland Waterways ADR : European Agreement concerning the International Carriage of Dangerous



ACCORDING TO THE OCCUPATIONAL SAFETY AND HEALTH (CLASSIFICATION, LABELLING AND SAFETY DATA

SHEET OF HAZARDOUS CHEMICALS) REGULATIONS 2013 (CLASS REGULATIONS)

Goods by Road

CAS : Chemical Abstracts Service

IATA : International Air Transport Association

- IBC : Intermediate Bulk Container
- ICAO : International Civil Aviation Organisation
- IMDG : International Maritime Dangerous Goods

LTEL : Long term exposure limit

- RID : Regulations concerning the International Carriage of Dangerous Goods by Rail
- STEL : Short term exposure limit
- STOT : Specific Target Organ Toxicity

UN : United Nations

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