1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Material name	:	ATM Spray Acrylic Lacquer (for all colours).
Recommended use	:	A universal purposes to give the best available aerosol quality products. It is quick drying, high gloss and has excellent adhesion on both of metal and wood.
Supplier	:	UR Chemical Co., Ltd. 81, Moo 11, Tambol Bang-pla, Amphur Bang-plee Samutprakan 10540
Telephone	:	+66 2 312 1415-9
Fax	:	+66 2 312 1048
Emergency Telephone number	:	+66 2 312 1415

2. HAZARD IDENTIFICATION

GHS Classification :

- Flammable aerosols, cat. 2
- Skin corrosion/ irritation, cat. 2
- Eye damage/ irritation, cat. 2A
- Toxic to reproduction, cat. 2
- Specific Target Organ Toxicity following single exposure, cat.3 – narcotic effect.
- Specific Target Organ Toxicity following repeated exposure, cat. 2
- Acute hazards to the aquatic environment, cat. 3

GHS Label Elements

Symbol(s) :

Signal words : **WARNING**

GHS Hazard Statement :

Physical hazards : H223: Flammable aerosol.

Health hazards :
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H361: Suspected of damaging fertility or the unborn child.
H336: May cause drowsiness and dizziness.
H373: May cause damage to organs through prolonged or repeated exposure.

Environmental hazards : H402: Harmful to aquatic life.

GHS Precautionary Statement

Prevention :

- P210: Keep away from heat/ sparks/ open flames/ hot surfaces. – No smoking.
- P211: Do not spray on an open flame or other ignition source.
- P251: Pressurized container: Do not pierce or burn, even after use.
- P271: Use only outdoors or in a well-ventilated area.
- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read an understood.
- P280: Wear protective gloves, protective clothing eye and face protection.
- P260: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
- P264: Wash hands and contaminated body parts after handling.
- P273: Avoid release to the environment.

Response :

- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P321: Specific treatment (see details on the label).
- P332+P313: If skin irritation occurs: Get medical advice/ attention.
- P362: Take off contaminated clothing and wash before reuse.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313: If eye irritation persists: Get medical advice/ attention.
- P304+P340: IF INHALED: Remove victims to fresh air and keep at rest in a position comfortable for breathing.
- P312: Call a POISON CENTER or doctor/ physician if you feel unwell.

Storage :

- P410+ P412: Protect from sunlight. Do not expose to temperatures exceeding 50 ºC/ 122 ºF
- P405: Store locked up.

Disposal :

- P501: Dispose of contents/ container to appropriate waste reclaimer in accordance with local and national regulations.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Hazardous Components

Chemical Identity	CAS No.	% w/w	Hazard category
Liquefied Petroleum Gases	68476-85-7	20 – 30%	1. H220: Flammable gases, cat. 1
Toluene	108-88-3	10 – 30 %	1. Flammable liquids,cat.2 - H225 2. Skin corrosion/ irritation, cat. 2 - H315 3. Toxic to reproduction, cat. 2 - H361 4. STOT (single), cat. 3 - H336 / narcotic effect 5. STOT (repeated), cat. 2 - H373 6. Aspiration hazard, cat. 1 - H304 7. Acute toxic to aquatic, cat. 2 - H401
Nitrocellulose	9004-70-0	1-10%	1. Flammable solid, cat. 1 - H228
Acetone	67-64-1	1 – 10%	1. Flammable liquid and vapour, cat. 2 - H225 2. Eye damage/ irritation, cat. 2B - H320 3. STOT (single), cat. 3 - H336 (narcotic effect) 4. Aspiration hazard, cat. 2 - H305

Ethyl Acetate	141-78-6	1 – 10 %	1. Flammable liquids, cat. 2 - H225 2. Eye damage/ irritation, cat. 2A - H319 3. STOT (single), cat. 3 - H336
Xylene	1330-20-7	1 – 10%	1. Flammable liquids, cat. 3 - H226 2. Acute toxic - oral, cat. - H303 3. Acute toxic - dermal, cat. 4 - H312 4. Acute toxic - inhalation, cat. 4 - H332 5. Skin corrosion/ irritation, cat. 2 - H315 6. Eye damage/ irritation, cat. 2 A - H319 7. STOT (SE), cat. 3 - H335 (respiratory system) 8. STOT (RE), cat. 2 - H373 (auditory organ) 9. Aspiration hazard, cat. 1 - H304 10. Acute toxic to aquatic life, cat. 2 - H401
Butyl Glycol	111-76-2	0 – 5 %	1. Combustible liquid - H227 2. Harmful if swallowed - H302 3. Harmful in contact with skin - H312 4. Harmful if inhaled - H332 5. Causes skin irritation - H315 6. Causes serious eye irritation - H319

4. FIRST-AID MEASURES

Inhalation : Remove to fresh air, if rapid recovery does not occur, transport to nearest medical facility for additional treatment.

Skin contact : Remove contaminated clothing. In a shower, wash affected area with soap and water at least 15 minutes. Seek medical attention if irritant occurs or persists. Wash clothing before reuse.

Eye contact : Remove contact lenses, if present. Immediately flush eyes with plenty of clean running water at least 15 minutes while holding eyelids open. If eye irritation, burning sensation, redness, swelling and/ or blurred vision. Transport to the nearest medical facility for additional treatment.

Ingestion : If swallowed, do not induce vomiting, transport to the nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Most important Symptom/ Effect, Acute & Delayed : Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters.
Eye irritation signs and symptoms may include a burning sensation, redness, swelling and/or blurred vision.
Breathing of high concentration vapors may cause central nervous system (CNS) depression resulting in dizziness, lightheadedness, headache, nausea, lightheadedness, headache, nausea and loss of coordination.
Prolonged or repeated exposure may cause damage to organs (CNS and respiratory tract)

5. FIRE FIGHTING MEASURES

Suitable extinguishing media : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing	:	Do not use water in a jet.
Specific hazard arising from chemicals	:	The combustion can emit the irritating and toxic vapors/ fumes as carbon monoxide, carbon dioxide. The vapor is heavier than air, spreads along the ground and distant ignition is possible
Protective equipment & precautions for fire fighters	:	Wear protective clothing and self-contained breathing apparatus.
Additional advice	:	Keep adjacent containers cool by spraying with water.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, Protective equipment and Emergency procedures	:	Isolate hazard area and deny entry to unnecessary or unprotected personnel. Step up wind and keep out of low areas. Avoid contact with spilled or released material. Immediately take off contaminated clothing. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding all equipments. Monitor area with combustible indicator. Wear full protective clothing and self-contained breathing apparatus.
Environmental precautions	:	Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment (of product and fire fighting water) to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Authorities should be notified if reportable quantity release occurs.
Method and material for containment and clean up	:	For small liquid spills (< 1 drum): transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. For large liquid spills (> 1 drum): Perform with same method for small liquid spills. Retain as contaminated waste. Recover or recycle if possible.

7. HANDLING AND STORAGE

Precautions for safe handling	:	Avoid inhale vapour and/or mist. Avoid contact with skin, eye and clothing. Only use in a well-ventilated area. Wash thoroughly after handling. Do not smoke. Remove ignition sources. Avoid sparks. Keep container closed when not in use. Handling temperature: Ambient.
Conditions for safe storage/ Including any incompatability	:	Keep away from aerosol, flammables, incompatible materials such as oxidizing agent, corrosive and other flammable products. The container should be labelled and keep tightly closed. Keep in a well-ventilated place. Keep cool. Protect from sunlight. Do not expose to temperature exceeding 50 ºC/ 122 ºF.
Recommended materials **Unsuitable materials** **Container advice**	:	For container, use mild steel or stainless steel. Avoid prolonged contact with natural, butyl or nitrile rubbers. Containers, even those that have been emptied can contain explosive vapours. Do not cut, drill, grind, weld or perform similar operation on or near containers.

8. EXPOSURE CONTROL/ PERSONAL PROTECTION

Threshold limit for exposure control

Occupation exposure limits

Material	ACGIH TLV		Remark
	TWA	STEL	
Liquefied Petroleum Gases	1000 ppm	-	
Toluene	20 ppm	-	
Ethyl Acetate	400 ppm	-	
Butyl Glycol Ether	20 ppm	-	
Ethyl Benzene (Xylene)	20 ppm	-	
Xylene mixed isomer (Xylene)	100 ppm	-	

Appropriate engineering control : Select controls based on a risk assessment of local circumstances. Appropriate measures include: Use sealed systems as far as possible. Adequate ventilation to control airborne concentrations below the exposure guidelines/limits are recommended.

Individual protection measures

Respiratory protection : If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for organic gases and vapours [boiling point >65 ℃ (149 ℉)] meeting EN14387. Where respiratory protective equipment is required, use a full-face mask. Where air-filtering respirators are unsuitable (e.g., airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus.

Hand protection : Using gloves constructed of chemical resistant materials such as heavy nitrile rubber if frequent or prolonged contact is expected.
Neoprene or PVC gloves also be using in case of incidential contact or splash protection.
Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly.

Eye protection : Chemical splash goggles (chemical monogoggles). Eye washes and showers for emergency use are recommended to the work area.

Protective clothing : Protective gloves, safety shoes and boots are recommended.

Remarks : Personal protective equipment is not considered to long term solution of exposure control.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

- Physical appearance : Aerosol
- Color : Refer to ATM Color Card

Odor	:	Specific odour
Initial Boiling Point	:	No data
Melting Point	:	No data
Flash point	:	- 73 °C (Based on the lowest flash point material, spray propellant (LPG – Liquified Petroleum Gas)
Flammable limit	:	Lower (%) – 2.1 Upper (%) – 9.5 Based on the data of spray propellant (LPG – Liquified Petroleum Gas)
Kinematic viscosity	:	No data
Density	:	No data
Air Vapour Pressure @ 30 ºC	:	4.5 – 5 kg/cm^2
Water solubility	:	Immiscible

10. STABILITY AND RELIABILITY

Chemical stability	:	Stable under normal conditions of use.
Possibility of hazardous reaction	:	No data
Condition to avoid	:	Avoid from heat, sparks, open flames and other ignition sources. Do not exposure to sunlight and/ or the temperature exceeding 50 ºC (122 ºF)
Incompatible materials	:	Strong oxidizing agent
Hazardous decomposition products	:	A complex mixture of airbone solids, liquids and gases, including carbon monoxide, carbon dioxide and organic compounds may be evolved when this material undergoes combustion or thermal or oxidative degradation.

11. TOXICOLOGICAL INFORMATION

Basis of assessment	:	Information given is based on product data, mixtures of product and/ or the similar product and/ or ingredients.
Acute oral toxicity	:	Low of toxicity : LD50 > 5000 mg/kg
Acute dermal toxicity	:	Low of toxicity : LD50 > 5000 mg/kg
Acute inhalation toxicity	:	Expected to be low of toxicity if inhaled.
Skin corrosion/ irritation	:	Prolong or repeated exposure causes the irritation to skin.

Serious eye damage/ irritation	:	Causes serious eye irritation.
Respiratory tract irritation	:	High concentration of vapor exposure may cause the irritation of respiratory tract.
Aspiration hazard	:	No data
Germ cell mutagenicity	:	Not mutagenic.
Carcinogenicity	:	No data
Reproductive and Developmental Toxicity	:	Suspected of damaging fertility or the unborn child. Does not impair fertility.
Specific Target Organ Toxicity (Single)	:	The exposure with high concentration causes damage to organs includes CNS and respiratory tract. Vapors may cause drowsiness and dizziness.
Specific Target Organ Toxicity (Repeated)	:	Prolonged or repeated exposure may cause dermatitis through the drying action of solvent. Prolonged or repeated inhalation exposure to high concentration of vapours may affect the Central Nervous System.
Other information	:	No other adverse health effects are expected if the product is handled in accordance with the safety data sheet and the product label.

12. ECOLOGICAL INFORMATION

Basis for Assessment	:	The information given below is based partly on a knowledge of the components and the ecotoxicology of similar products.
Acute Toxicity	:	No data.
Chronic Toxicity		No data.
Mobility	:	This substance contains highly volatile material that will rapidly evaporate to the air.
Persistence/degradability	:	Some parts of product are readily biodegradable while the others are expected to be slowly biodegradable.
Bioaccumulative potential	:	No data.

13. DISPOSAL CONSIDERATION

Material disposal	:	Recover or recycle if possible. It is responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses. Waste product should not be allowed to contaminate soil or water.
Container disposal	:	Disposal should be in accordance with applicable regional, national, and local laws and regulations. Send a disposal container to drum recover or metal reclamier.

14. TRANSPORT INFORMATION

	ADR /RID	IMDG	IATA
UN Number	1950	UN 1950	1950
Proper Shipping Name	Aerosols	AEROSOLS	Aerosols
Class	2.1	2.1	2.1
Packing group	N.A.	N.A.	N.A.
Special Precautions	Protect from direct sunlight. Product must be store below 50 °C	Protect from direct sunlight. Product must be store below 50 °C	-

15. REGULATORY INFORMATION

- Hazardous substances ACT, B.E. 2535 (1992)
- Notification of statement of the hazardous substances committee subject to Transportation of Dangerous Goods by road B.E. 2545 (2002)
- Notification of the Ministry of Industry subject to responsibility of Department of Industrial Works for hazardous substances containment B.E. 2551 (2008)
- Notification of the Ministry of Industry subject to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) B.E. 2555 (2012)

16. OTHER INFORMATION

SDS version : 2.1

Date of Issue : 13.03.2018

Reference :

1) Safety Data Sheet of Liquefied Petroleum Gas (LPG)
Published by Unique Gas and Petrochemical PLC.
2) Safety Data Sheet of Toluene.
published by TOP Solvent Co., Ltd.
SDS version 2.1/ Effective date: June 1, 2012
3) Safety Data Sheet of Butyl Glycol Ether
Published by TOP Solvent Co., Ltd.
SDS version 2.1/ Effective date: June 1, 2012
4) Safety Data Sheet of Acetone
Published by TOP Solvent Co., Ltd.
SDS version 2.1/ Effective date: June 1, 2012
5) Safety Data Sheet of Ethyl Acetate
Published by TOP Solvent Co., Ltd.
SDS version 2.1/ Effective date: June 1, 2012
6) Safety Data Sheet of Xylene
Published by Shell Eastern Chemical Singapore
SDS version 4.0/ Effective date: 24.05.2011

7) Safety Data Sheet of Nitrocellulose
Published by Nitro Chemical Industry Co., Ltd.
SDS version 00/ Effective date: 01.08.2009

Disclaimer : This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be constructed as guaranteeing any specific property of the product.