1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	: TOA ENAMELTHINNER No.21
Product Use	: Solvent for Coating.
Company Name	: TOA PAINT (THAILAND) PUBLIC COMPANY LIMITED
Address	: 31/2 Moo 3, Bangna-Trad Road, Bang Sao Thong Sub-District, Bang Sao Thong District, Samut Prakarn Province 10570, Thailand
Telephone No.	: +662 335 5777
Fax No.	: +662 312 8927
Emergency Call	: +662 335 5999

2. HAZARDS IDENTIFICATION

[GHS Classification]

		Hazard Category
Physical Hazard	: Flammable liquid	Category 3
Health Hazard	: Acute toxicity (Oral / LD50)	Not Classify
	: Acute toxicity (Dermal / LD50)	Not Classify
	: Acute toxicity (Inhalation : vapours)	Category 3
	: Skin corrosion / Irritation	Category 3
	: Serious eyes damage / Eyes irritation	Category 2B
	: Respiratory and skin sensitization	Not Classify
	: Germ cell mutagenicity	Category 2
	: Carcinogenicity	Category 2
	: Reproductive toxicity	No data
	:Specific target organ systemic toxicity-Single exposure (central nervous system)	Category 2
	: Specific target organ systemic toxicity-Repeated exposure (kidney)	Category 2
	: Aspiration Hazard (Airways)	No data
	: Acute aquatic toxicity	Category 3
	: Chronic aquatic toxicity	Not Classify
	: Hazard to the ozone layer	No data

Pictograms

Signal word

Danger

Hazard statements

1. Flammable liquid and vapour.
2. Toxic if inhaled.
3. Causes mild skin and eye irritation.
4. Suspected of causing genetic defects.
5. Suspected of causing cancer.
6. May cause damage to central nervous system depression resulting in headaches, dizziness and nausea, continued inhalation may result in unconsciousness and/or death.
7. May cause damage to kidney through prolonged or repeated exposure.
8. Harmful to aquatic life.

Precautionary Statements

1. Read label before use. DO NOT handle until all safety precautions have been read and understood.
2. Wear protective gloves / protective clothing / eye protection / face protection. Wear respiratory protection.
3. Use product only on objects. DO NOT use with human and animal.
4. DO NOT eat this product. Keep this product away from food, drink and animal feeding stuffs.
IF SWALLOWED, DO NOT induce vomiting and seek medical advice immediately.
5. DO NOT eat, drink or smoke when using this product.
6. DO NOT breathing vapors or spray mist. IF INHALATION: Remove to adequate ventilation place and support breathing
as needed. In case of faint, must recuperate the patient and seek medical advice immediately.
7. Avoid direct contact. Wash the exposed thoroughly after handling. IF ON SKIN: Wash with plenty of soap and water.
DO NOT use solvent or thinner and seek medical advice immediately.
8. IF IN EYES: Flush with plenty of water for at least 15–20 minutes and seek medical advice immediately.
9. If you feel unwell: Call a POISON CENTER or doctor/physician.
10. Use and store this product in dry and a well-ventilated place.
11. Product may cause electrostatic force, always use ground connection and antistatic protective clothes when pouring this product out of container.
12. Keep this product in provided container only.
13. Keep container tightly closed. Keep out of reach of children.
14. Keep away from heat / sparks / open flames / hot surfaces / direct sunlight. In case of fire: Use foam, dry chemical, water spray for extinction. DO NOT use water in a jet.
15. Keep product away from oxidizing agents, acidic and alkaline substances.
16. Move product with careful, always carry with the top cover stand upright.
17. In case of leakage, use nonflammable absorbent such as dried sand or soil and clean surface with powdered detergent.
DO NOT use thinner or solvent.
18. Avoid release paint or used container to water drain or natural water resource.
19. Used container dispose as chemical contaminate waste according to local regulation or standard regulation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

No.	Component / Chemical Name	CAS Number	EC Number	%
1	White Spirit	64742-82-1	265-185-4	98

4. FIRST AID MEASURES

General : In all cases of doubt or when symptoms persist, get medical attention immediately. DO NOT give anything by mouth to an unconscious person.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If unconscious place in recovery position and seek medical advice.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

Eye Contact : Check for and remove any contact lenses. Immediately flush eyes with running water at least 15 minutes, keeping eyelids open.

Ingestion : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do not induce vomiting.

5. FIRE - FIGHTING MEASURES

Extinguishing Media : Recommended: alcohol resistant foam, CO2, powders, water spray. Not to be used : waterjet.

Recommendations : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire control methods to sewers or waterways.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions : Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

Spill : Contain and collect spillage with non-combustible absorbent materials e.g. diatomaceous earth, sand, vermiculite and place in container for disposal according to local regulations (see section 13) Do not allow to enter drains or watercourses. Clean preferably with a detergent, avoid use of solvents. If the product contaminates lakes, rivers or sewage, inform appropriateauthorities in ac cordance with local regulations.

7. HANDLING AND STORAGE

Handling

: Keep container tightly closed. Keep away from heat, sparks and flame.
No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates and spray mist arising from the application of this preparation.
Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed.
Workers should wash hands and face before eating, drinking and smoking.
Put on appropriate personal protective equipment (see Section 8).
Never use pressure to empty the container because the container can not resist the pressure.
Always keep this products in containers that made with same material as the original one.
Comply with the health and safety at work laws.
Vapors of this product are heavier than air and may spread along floors.
Prevent flame by control the vapor concentration under Occupational Exposure Limits.
In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded.
Electrical equipment should be protected to the appropriate standard.
To dissipate static electricity during transfer, earth drum and connect to receiving container with bonding strap. Operators should wear anti-static footwear and clothing.
The floors should be the conducting type.
When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapor in all cases.
In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapor concentration has fallen below the exposure limits.

Storage

: Store in accordance with local regulations. Observe label precautions.
Store in a cool, well-ventilated area where away from incompatible materials and ignition sources. Keep away from oxidizing agents, strong alkali, strong acids.
Ideal storage temperature range is 25 – 30˚C. DO NOT freeze this products.
No smoking and prevent unauthorized access.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
DO NOT allow to enter drains or watercourses.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering controls

: Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn.

Personal protective equipment

Respiratory system	: If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Use respiratory mask with charcoal and dust filter when spraying this product (as filter combination A2-P2). In confined spaces use compressed air or fresh air respiratory equipment. When use of roller or brush, consider use of charcoal filter (A2).
Skin and body	: Wear anti-static clothing made of natural fibre or high temperature resistant synthetic fibre. Before rewearing, wash the contaminated suit separately from other laundry.
Hands	: For prolonged or repeated handling, use gloves: neoprene or nitrile gloves. Use barrier cream together with the gloves to protect the exposed areas of the skin. However, prohibit to use the barrier cream after exposure has occurred. For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.
Eyes	: Use safety eyewear designed to protect against splash of liquids.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	: Liquid
Color	: Clear
Flash Point	: 32 ˚C
Odor	: Solvent smell
Specific Gravity	: 0.75-0.78 g/cm^3
Water Solubility	: Insoluble

10. STABILITY AND REACTIVITY

Chemical Stability	: Stable under normal temperatures and pressures.
Conditions to Avoid	: Heat, flame and freezing or temperatures below 0˚C
Incompatible Materials	: Oxidizing agents, Strong acids and alkalis.
Hazardous Decomposition Products	: Carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

Cassification according the GHS

Oral : Rat (LD50) (mg/kg) or ATE	: ATE = 5000 mg/kg
Dermal : Rabbit (LD50) (mg/kg) or ATE	: ATE = 3160 mg/kg
Inhalation : Rat (LC50) (mg/L) or ATE	: ATE = 5 mg/L
Skin corrosion/irritation	: Causes mild skin irritation.
Serious eye damage/eye irritation	: Causes mild eye irritation.
Respiratory or skin sensitization	: No data available.
Germ cell mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: Suspected of causing cancer. : No data available
Reproductive toxicity	: No data available.
Specific target organ toxicity - single exposure	: May cause damage to central nervous system depression resulting in headaches, dizziness and nausea, continued inhalation may result in unconsciousness and/or death.
Specific target organ toxicity - repeated exposure	: May cause damage to kidney through prolonged or repeated exposure.
Aspiration hazard	: May be harmful if swallowed and enters airways : No data available.

12. ECOLOGICAL INFORMATION

Hazardous to	
Acute the aquatic environment	Harmful to aquatic life
Chronicthe aquatic environment	No data available.
the ozone layer	Not Classified.

13. DISPOSAL CONSIDERATIONS

Method of disposal	The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of split material and runoff and contact with soil, waterways, drains and sewers.
Material and/or container must be disposed of as hazardous waste European waste catalogue (EWC)	08 01 11 Waste paint and varnish containing organic solvents or other dangerous substances 08 01 17 Wastes from paint or varnish removal containing organic solvents or other dangerous substances

14. TRANSPORT INFORMATION

Proper Shipping Name	Turpentine substitute
Class	3
UN. Number	1300
Packing Group	III
Label	
Transport in accordance with ADR/ RID, IMDG/IMO and ICAO/IATA and national regulation.	ADR/RID : Viscous substance. Not restricted, ref. chapter 2.2.3.1.5 (applicable to receptacles < 450 litre capacity) IMDG : Viscous substance. Transport in accordance with paragraph 2.3.2.5 (applicable to receptacles <30 litre capacity)

15. REGULATORY INFORMATION

Thai regulation	: HAZARDOUS SUBSTANCE ACT, B.E. 2535 (1992)
	: Notification of Ministry of Industry Subject: Hazard Classification and 2555 (2012) Communication System of Hazardous Substances B.E.

16. OTHER INFORMATION

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions.

It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation.

The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.