

**MATERIAL SAFETY DATA SHEET****Product Name: Beger Thinner****Product Code: M-5588**

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Version no.1

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY**Product name: Beger Thinner #M-5588****Supplier: Beger Co., Ltd.****Address: 90, 92 Buntudthong Road, Rachatavee, Bangkok 10400 Thailand.****2. COMPOSITION / INFORMATION ON INGREDIENTS**

No.	Description	CAS.No.	Symbol	Weight (%)
1	Toluene	108-88-3	-	58 - 62
2	Butyl Acetate	123-86-4	-	15 - 20
3	Methyl Ethyl Ketone	78-93-3	-	15 - 20
4	1-methoxy-propan-2-yl acetate	108-65-6	-	10 - 12

Carcinogen: None.

Legend: T+=Very toxic, T=Toxic, C=Corrosive, Xn=Harmful, Xi=Irritant, IK=No classification required, E=Explosive, O=Oxidizing, F+=Extremely flammable, F=Very flammable, Fo=Flammable, N=Danger to the environment.

3. HAZARDS IDENTIFICATION**Primary Routes of Exposure****Inhalation: Slightly Irritation.****Skin Contact: Prolonged or repeated skin contact can cause slight skin irritation.****Eye Contact: Direct contact with material can cause slight irritation.****4. FIRST AID MEASURES****General Advice: In all cases of doubt, or when symptoms, seek medical attention. Never give anything by mouth to an unconscious person.****Inhalation: Remove patient to fresh air and seek medical assistance. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious place in recovery position.****Skin Contact: Remove contaminated clothing. Wash skin with soap and water. Rinse abundantly.****Eye Contact: Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eye lens apart and seek medical advice.****Ingestion: Immediately rinse mouth and then drink a plenty of water. Do not induce vomiting. Keep patient warm and at rest and call a doctor immediately.**



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5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Foam (alcohol resistant), carbon dioxide, powders, water spray. Do not allow run-off from fire fighting to enter drains or watercourses.

Unsuitable Extinguishing Method:

Water Jet.

Special Hazards due to the substance, its decomposition products or gases produced by fire:

Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.

Special Protective Equipment:

Appropriate breathing apparatus may be required.

Additional Information:

Cool closed containers in the vicinity of the source of fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precaution:

Refer to protective measures listed in sections 7 and 8.

Exclude sources of ignition and ventilate the area. Avoid breathing vapours.

Measures to Protect the Environment:

Do not allow to enter drains or watercourses. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.

Cleaning Measures:

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents.



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7. HANDLING AND STORAGE

Handling:

Instructions for safe handling.

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Avoid skin and eye contact. Avoid inhalation of vapour and spray mist.

Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety and work laws.

Isolate from sources of heat, sparks and open flame. Do not use any sparking tools.

Storage:

Requirements for storage areas and containers.

Floor must be of conducting type and impermeable to the materials being stored.

Keep container tightly closed. Never use pressure to empty; container is not a pressure vessel. Containers which are opened must be carefully resealed and kept upright to prevent leakage. No smoking. Prevent unauthorized access.

Information on combined storage keeps away from oxidizing agents, from strongly alkaline and strongly acid materials.

Additional information on storage conditions.

Always keep in containers of same materials as the original one. Observe label precautions.

Storage in a well ventilated place away from sources heat and direct sunlight. Keep away from sources of ignition.

Storage Temperature: 5 – 35°C.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures: Provide adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

Personal Protection:

Respiratory Protection: When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators. Suitable respiratory protection: e.g. half-mask with A2P2 class combination filter.

Hand Protection: Necessary for prolonged or repeated contact. Suitable protective gloves: e.g. nitrile gloves. The protective glove type should always be tested for its suitability (e.g. antistatic, mechanical and chemical resistance etc.)
Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Eye Protection: Required when there is a risk of eye contact. Use tight-fitting protective goggles.



HYGINEIC PRACTICES: Good personal hygiene practices are required at all times when handling chemicals. These practices including, but are not limited to, washing when safety equipment is removed, at the end of each shift or when going on breaks and especially of contamination occurs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid
Colour: Colourless
Odour Characteristic: Aromatic
Boiling Point: 110 – 111°C
Melting Point: -95°C
Flash Point: >4°C
Ignition Temperature: >450°C
Explosion Limits
 Lower: 1.2% (V)
 Upper: 8.0% (V)
Vapour Pressure: 3 – 3.5 Kpa at 20°C
Density: 0.870 g/cm³ at 20°C



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10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (see section 7).

Conditions to be avoided.

Substances to be avoided.

Hazardous Decomposition Products:

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

Skin and mucous membrane compatibility, rabbit:

Skin 4 hours exposure – slightly irritant.

Eyes:

Non-Irritant (Tested according to OECD Guidelines No.404 and No.405).

Long term contact with skin:

Tanning and irritating effects are necessary. Over-exposure, especially during spraying operations without the necessary precautions, entails the risk of concentration-dependent irritation effects on eyes, nose throat, and respiratory tract.

The liquid splashed in the eye may cause irritation and reversible damage.

12. ECOLOGICAL INFORMATION

The product should not be allowed to enter drains or water courses.

Do not allow escaping into water, wastewater or soil.

13. DISPOSAL CONSIDERATIONS

Waste form residues / unused products:

Solidify unexposed surplus and dispose of together with processed material as cured plastic waste – in accordance with local and national regulations.

Contaminated packing:

In accordance with local and national regulations.

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14. TRANSPORT INFORMATION

Transport by Road or Rail: UN 1294, Paint, 3, II, ADR/RID (Vapour pressure at 50°C not more than 110 kPa).

Sea Transport: Paint, 3, UN 1294, II

Air Transport: Paint, 3, UN 1294, II

15. REGULATORY INFORMATION

The product is classified and labeled for supply in accordance with the EC directives (1999/45/EC).

Danger Symbol: -

Danger Classification: Harmful Flammable.

Product Contains: Mineral Spirit.

R20/21: Harmful by inhalation and in contact with skin.

R38: Irritating to skin.



Labeling for Industrial Users

S16: Keep away from sources of ignition – No smoking.

S23: Do not breathe spray dust / solvent vapour.

S33: Take precautionary measures against static discharges.

S36/37: Wear suitable protective clothing and gloves.

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

National Regulations.



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16. OTHER INFORMATION

Restricted to professional users.

Full text of risk warnings for components listed in section 2.

R11: Highly Flammable.

R20: Harmful by Inhalation.

R20/21: Harmful by Inhalation and in contact with skin.

R38 Irritating to skin.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

This information contain herein relates only to the specific material identified. The company believes than such information is accurate and reliable as of the date of this safety date sheet, but no representation, guaranty, expressed or implied, is made as to the accuracy, or completeness of the information.

