

PRODUCT SAFETY DATA SHEET

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01. IDENTIFICATION OF SUBSTANCE / PREPARATIONS:

Product name: RAKETE / EXPRESS ACTIVATOR
Description: For professional use only
Supplier: MB Products (UK) Ltd
t/a MB Coatings Ltd
Unit 230 Ampress Business Park
Lymington Hampshire SO41 8JW
Tel: 01590 677676 Fax: 01590 678578 www.mbcoatings.co.uk

02. COMPOSITION / INFORMATION ON INGREDIENTS:

Description	CAS No	% (age range)	EINECS No	Symbol	Classification
Butyl Acetate	123-86-4	20 - 30		Xin	R10
Xylene, Mixture of Isomers	1330-20-7	20 - 30	215-535-7	Xn, Xi	R20/21-38
Ethylbenzene	100-41-4	5 - 10	202-849-4	Xn	R20
4-Isocyanatosulphonyltoluene	4083-64-1	0 - 1	223-810-8	Xn, Xi	R36/37/38-42-14
3-Isocyanatomethyl -3,5,5-Trimethylcyclohexylisocyanate	4098-71-9	0 - 1	223-861-6	T, Xi, N	R23-36-38/42/43-20 51/53
2-Methoxy-1-Methylethyl Acetate	108-65-6	1 - 5	203-603-9	Xi	R36
Methoxy Propyl Acetate/Propylene Glycol Mono-Methyl Ether Acetate, Arcosolv PMA		5 - 10		Xn	R20/21/22
Aliphatic Poly-Isocyanate		30 - 40		Xn, Xi	R20-36/37/38-42-43

Xn – Harmful, Xi – Irritant, T – Toxic, N - Environmental

The texts of the R phases are listed in chapter 15 .

03. Hazards Identification:



Xn- Harmful

Irritant to Eyes

Flammable

Risk Warnings

- Flammable.
- May cause sensitization by skin contact, inhalation and may cause lung damage if swallowed.
- Irritating to eyes, Respiratory systems and skin.
- Vapors may cause narcosis, with continued exposure above the OEL, possible long term effects.

04. First Aid Measures:

General

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation

Remove patient to fresh air and seek medical assistance. If breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious place in recover position.

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Skin Contact

Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. **DO NOT** use solvents or thinners.

Eye Contact

Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart and seek medical advice.

Ingestion

Immediately rinse mouth and obtain immediate medical attention. **Do NOT** induce vomiting. Keep the patient warm and at rest and call a doctor immediately.

05. Fire-Fighting Measures:

Suitable Extinguishing Media

CO₂, Foam, Chemical Powder or Sand for flammable liquids. Water may **NOT BE** used to extinguish fire but it should be used to cool the containers exposed to flames and prevent fires and explosions. For leakage and spillage that have not could fire nebulized water may be used to disperse flammable vapours. Do not allow run-off from firefighting to enter drains or watercourses.

Unsuitable Extinguishing Method

Water Jet.

Special Hazards due to the Substance, its Decomposition Products or Gases products 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, helmet with face shield, protection for neck may be required.

Addition information

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

06. Accidental Release Measures:

Person Protective Measures

Refer to protective measures listed in sections 5.

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.

07. Handling and Storage:

Handling

Instructions for Safe Handling

Prevent the creation of flammable or explosive concentrations of vapor in air and avoid concentration higher than the occupational exposure limits.

Avoid skin and eye contact. Avoid inhalation of vapor.

Smoking, eating and drinking are forbidden in application area. For personal protection see section 8

Comply with the Health and Safety at work laws.

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

Product may charge electrostatically always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear anti-static clothing and footwear. The accumulation of contaminated rags and dry overspray, particularly in spray booths filters may result in spontaneous combustions.

Information on Fire and Explosion Protection

Solvent vapors are heavier than air and spread along floors.

Vapor forms explosive mixtures with air.

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Keep container dry and tightly closed in a cool well-ventilated place.

Storage

Requirements for Storage Areas and Containers

Electrical equipment must be explosion-proof to the appropriate standard. Floors must be conducting type and impermeable to the materials being stored.

Keep container tightly closed. Never use pressure to empty; container is not a pressure vessel. Close containers carefully once opened and store upright in order to prevent any leakage. No smoking. Prevent unauthorized access.

The store room should be marked "Flashpoint below 32°C" in accordance with "The Highly Flammable Liquids & Liquefied Petroleum Gases Regulations 1972 S.I. No 917 (1972) Sections 5 and 6.

Additional Information on Storage Conditions

Always keep in containers of the same material as the original one.

Observe label precautions. Store in a well-ventilated place away from sources of heat and direct sunlight.

Keep away from sources of ignition.

Specific use(s)

Detailed information can be gained from the relevant technical data sheets.

08. Exposure Controls / Personal Protection

Personal Protection

Respiratory Protection

When workers are facing concentrations above the occupational exposure limited they must use appropriate certified respirators, goggles and overalls.

Hand Protection

Any chemical protection glove certified according to EN 374 is suitable: e.g. nitrile gloves. Material thickness: 1.25 mm. The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

Eye Protection

Required when there is a risk of eye contact.

Use tight-fitting protective goggles

Skin Protection

Wear protective gloves.

Cotton or cotton/ synthetic overalls or coveralls are normally suitable, but grossly contaminated clothing must be removed and the skin washed with soap and water or a proprietary skin cleaner.

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 work place below the occupational exposure limits, appropriate certified respirators must be worn.

General Protection:

All ppe including rpe, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH regulations.

General Protection:

Exposure

Substance Name	8hr LTEL		15min STEL		Notation
	ppm	mg/m3	ppm	mg/m3	
Butyl Acetate	150	710	950		OES
Xylene, Mixture of Isomers OEL's are Xylol	100	435	650		Sk, OES
Ethylbenzene	100	435	545		OES
4-Isocyanatosulphonyltoluene		0.02		0.07	
3-Isocyanatomethyl-3,5,5- Trimethylcyclohexylisocyanate		0.02		0.07	

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2-Methoxy-1-Methylethyl Acetate	50	274	822	OES
OEL`s are Methyl Propoxy Acetate : Arcosolv PMA				
Methoxy Propyl Acetate/Propylene Glycol Mono-Methyl Ether Acetate	50			OES
Arcosolv PMA				
Aliphatic Poly-Isocyanate		0.02		Sen, OES

Notations - Sk - Risk of absorption through skin, Sen - Respiratory Sensitizer

Environmental exposure controls

See section 7 and 12

09 Physical and Chemicals Properties

Physical state	:	Liquid
Specific gravity	:	.977 Method: Calculation
Flash Point	:	=>21°C & <32°C method: Equilibrium Method to ISO 1516 & ISO 3680
V.O.C.	:	0.554 Kgs/ltr
Vapour density	:	Heavier than air
Lower explosive properties	:	0.8% vol
Solubility in water	:	Partially Miscible

10. Stability and Reactivity

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

Substances to be avoided

Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

Hazardous Decomposition Products

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

11. Toxicological Information

Exposure to organic solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as irritation of the mucous membrane and respiratory system serious depression of the renal and central nervous system, symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

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

12. Ecological Information

General

There are no test results available for this product.

The product should not be allowed 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.

The Air Pollution Control requirements of regulations made under the Environmental Protection Act may apply to the use of this product.

13. Disposal Considerations

Do not allow into drains or water courses or dispose of where ground or surface waters may be affected.

Recommendation

Wastes including emptied containers are controlled wastes and should be disposed of in accordance with regulations made under the Control of pollution & Environmental Protection Act

14. Transport Information

Transport by Road or Rail - UN 1263, Paint, Contains Xylene, Class 3.3, Packing Group III

Sea Transport - UN 1263, Paint, Contains Xylene, Class 3.3 Packing Group III. Main Risk: Flammability,

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Sub Risk: Narcosis, Marine Pollutant: No

Air Transport - IATA / UN1263, Paint, Class 3.3, Packing Group III. Main Risk: Flammability, Sub Risk: Narcosis

International Road/Rail - UN1263, Paint, Class 3, Packing Group III. Item No: 31.C. Main Risk: Flammability, Sub Risk: Narcosis

15. Regulatory Information

Classification



Xn-Harmful

Contains : **Butyl Acetate,**
: **Xylene, Mixture of Isomers**
: **Methoxy Propyl Acetate/Propylene Glycol Mono-Methyl Ether Acetate,**
: **Arcosolv PM**
: **Aliphatic Poly-Isocyanate**

Risk Warnings

R10 : Flammable.
R22 : harmful if swallowed
R20/21/65 : Harmful by inhalation, in contact with skin and may cause lung damage if swallowed.
R42 : May cause sensitization by inhalation.
R36/37/38 : Irritation to eyes, respiratory system and skin.

Safety Phrases

S13 : Keep away from food, drink and animal feeding stuffs.
S16 : Keep away from sources of ignition - No Smoking.
S22 : Do not breathe dust.
S23 : Do not breathe vapour/spray.
S26 : In case of contact with eyes rinse immediately with water seek medical attention.
S28 : After contact with skin wash immediately with plenty of water.
S43 : In case of fire do not use water.
S7/9 : Keep container tightly closed and in well ventilated place.
S24/25 : Avoid contact with skin and eyes.
S36/37/39 : Wear suitable protective clothing, gloves and eye protection.
P Phrases : Do not breath Vapour or Spray.
: For use in industrial installations only.

Danger labeling under regulations 67/548/EEC and 1999/45/EC and following amendments and adjustments.

Workers exposed to this chemical agent must not undergo health checks, providing that available risk-assessment data prove that the risks related to the worker's health and safety are modest and that the 98/24EC regulation is respected.

The information of this Safety Data Sheet is based on the present state of our knowledge and on current EU and national laws. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfill the demand laid down in the local rules and legislation. The information in this SDS is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the products` properties.