

Material Safety Data Sheet



HARMFUL

Triton Systems

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MSDS Ref:

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1. PRODUCT NAME:

TRI-SET RESIN

2. HAZARD IDENTIFICATION



NOTE: In use the product presents minimal risk as the material is

largely contained within the cartridge system.

Publication date

Flammable

Harmful by inhalation Irritating to eyes and skin May cause sensitisation

3. COMPOSITION

Symbols HAZARDOUS INGREDIENT CAS No. EC No. Weight % Risk Phrases 100-42-5 601-026-00-0 R10,20,36/38 Styrene 10-15 Xn Dibenzoyl peroxide 94-36-0 2023276 2-3 Χi R2,36,43,7 Dibutyl phthalate 84-74-2 2015574 1-2 None None

4. FIRST AID

CONTACT WITH SKIN: In case of skin contact wipe off mechanically, and wash affected areas

thoroughly with soap and water.

CONTACT WITH EYES: Rinse carefully and thoroughly with water and seek medical advice.

INGESTION: **DO NOT** induce vomiting because of risk of aspiration. Seek medical

advice.

INHALATION: Remove to fresh air, rest half upright position and loosen clothing.

Seek medical advice after significant exposure.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: CO₂, foam or dry powder.

UNSUITABLE EXTINGUISHING MEDIA: Halones

EXPOSURE HAZARDS: If involved in a fire, it will support combustion. Do not breath fumes.

Wear suitable protective clothing. Cool closed containers with water.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: For personal protection see section 8. Remove sources of fire.

ENVIRONMENTAL PRECAUTIONS: Collect as much as possible in a clean container for reuse or disposal.

Do not empty into drains.

CLEAN-UP PROCEDURES: Sweep into inert containers. Absorb the remainder with dry sand.



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7. HANDLING AND STORAGE

HANDLING PRECAUTIONS: Observe the necessary precautionary measure for styrene. Ensure

adequate ventilation. Do not inhale vapour. Avoid contact with skin and

eyes.

STORAGE INFORMATION: Store in cool, well-ventilated conditions away from direct sunlight.

Store upright.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION







The usual precautionary measures for handling chemicals should be

Provide adequate ventilation.

Wear suitable gloves of neoprene or synthetic rubber.

Wear eye/face protection.

Wear suitable protective clothing. Launder clothes before use.

EXPOSURE LIMITS
Styrene: 100ppm or 420mg/cu.m. (8h T.W.A)
Dibenzoyl peroxide: 5ml/cu.m. (8h T.W.A)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Paste
Odour	Faint
рН	7 (50% suspension in water)
Boiling Point	145°C Decomposes
Melting Point	Not Relevant
Flash Point	Base: 32 deg C Catalyst: Above SADT
Ignition	Base: 490 deg C Catalyst: 380 deg C
Explosive Properties:	1.1% by volume (lower) 8.0% by volume(upper)

Oxidising Properties	None
Vapour Pressure	7m bar @ 20 Deg C
Relative density	Base: 1.49 Typical Catalyst: 1.19 Typical
Bulk density	Not relevant
Viscosity	No data
Solubility	Insoluble in water
Partition Coefficient	No data
SADT	Catalyst: 50 Deg C

10. STABILITY / REACTIVITY

STABILITY: Product is stable and non reactive whilst in cartridge.

THERMAL DECOMPOSITION: The catalyst undergoes self accelerating decomposition at and above

50 Degree C.

CONDITIONS TO AVOID: Temperatures above 30 degrees C. Exposure to direct sunlight. Skin

contact may cause skin irritation.

MATERIALS TO AVOID: Direct contact with acids, alkalis, reducing agents or heavy metal salts.

HAZARDOUS DECOMPOSITION PRODUCTS: Not determined.

11. TOXICOLOGICAL INFORMATION

LD₅₀ Acute oral toxicity in rats: 5,000mg/Kg.

SPECIAL PROPERTIES: In high concentration styrene has irritating effects on eyes and mucous

membranes.

Skin contact may cause skin irritation.

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12. ECOLOGICAL INFORMATION

Prevent contamination of soil, drains or surface water (Styrene) Acute bacterial toxicity; ECOO = 72m/l

(Catalyst) Acute toxicity (fish) 96h-Lc50 = 2.0mg/1 (Poecilia Reticulata) (Styrene) Acute toxicity (fish) 48h-Lc50 = 17mg/L (Leuciscus Idus)

13. DISPOSAL CONSIDERATIONS

Controlled incineration according to local authority regulations.

14. TRANSPORT INFORMATION

UN NO. 1866 (Page 3379)
ADR/RID Class RN No. 301D

IMDG/Code 3.3

IMCO Not classified as hazardous

ICAO/IATA 3, 1866 III

FLASHPOINT = 32 Degree C (Styrene) Flammable Marine Pollutant Irritating to skin and eyes Harmful by inhalation

15. REGULATORY INFORMATION

CLASSIFICATION Symbol: Xn – Harmful

Contains: Resin solution in flammable solvent (Styrene)

LABEL INFORMATION: R10: Flammable

R20: Harmful by irritation

R36/38: Irritating to eyes and skin S23: Do not breathe vapour

This product is supplied in sealed containers. Although there is no requirement in normal use to work with the constituent raw materials, they are subject to occupational exposure limits (OEL) or occupational exposure standards (OES) as follows:

SUBSTANCE % BY WEIGHT LONG TERM EXPOSURE LIMIT (Sh TWA) SHORT TERM EXPOSURE LIMIT (10 min TWA)

Styrene 10 – 15 100 ppm (420mg/cu.m.) 250ppm (1,050 mg/cu.m.)

Dibenzoyl peroxide 2-3 5.0mg/cu.m. N/A

Refer to other relevant legislation such as the Health and Safety at Work etc Act (HSWA), THE Control of Substances Hazardous to Health Regulations (COSHH), the Environment Protection Act and the Control of Pollution Act.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risk as required by health and safety legislation.

16. OTHER INFORMATION

The information contained in this data sheet is to the best of our knowledge accurate at the date of publication, but we cannot accept responsibility that it is sufficient or correct in all cases.

The data contained herein does not constitute a specification. Such information is available from the technical data sheet for the product.

Abbreviations: OES – occupational exposure standard. STEL – short-term exposure limit. LTEL – long term exposure limit. TWA – time weighted (8 hour) average. LEL – lower explosive limit. UEL – upper explosive limit.