



DURAM (PTY) LTD • REG. NO. 9900461/07
13 ALTERNATOR AVENUE • MONTAGUE GARDENS • 7441 • CAPE TOWN • R.S.A.
P.O.BOX 36802 • CHEMPET • 7442 • CAPE TOWN • R.S.A.
TEL: +27 21 555 3090 • FAX: +27 21 555 3096 • WEBSITE: www.duram.co.za

MATERIAL SAFETY DATASHEET

DURAPRIME ACTIVATOR

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

NAME: DURAPRIME ACTIVATOR (COMPONENT OF A 2 PACK SYSTEM)
(SEE SEPARATE MSDS FOR BASE)

C.A.S. No.: 4067-16-7

PRODUCT CODE: 40-99

IN EMERGENCY CONTACT: THE TECHNICAL MANAGER ON TEL: +27 (021) 555-3090

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

EC CLASSIFICATION: Xi R38, 41, 52/53 S26, 39, 61

HAZARDOUS AND/OR OTHER RELEVANT COMPONENTS:

Pentaethylenehexamine CAS. 4067-16-7 Content <1.00%

Polymer Content 50%

Water CAS. 7732-18-5 Content 50%

The remaining ingredients are trade secret.

SECTION 3. HAZARDS IDENTIFICATION

Skin sensitiser

INHALATION: Excessive exposure must be avoided.

SKIN: Potential sensitiser. Moderately irritating. Corrosive

EYES: Severely irritating.

INGESTION: Irritating.

Medical conditions aggravated by exposure are asthma, chronic respiratory disease, eye disease and skin disorders and allergies.

Contains no listed carcinogens in concentrations of 0.1% or greater.

SECTION 4. FIRST AID MEASURES

INHALATION: Move to fresh air. If breathing stops or is laboured, give assisted respiration. Supplemental oxygen may be indicated. Prevent aspiration of vomit. Seek medical advice.

SKIN: Immediately flush contaminated area with water for at least 15 minutes. Remove contaminated clothing. Seek medical advice.

EYES: Hold eyelids apart and flush with water for at least 15 minutes. Seek medical advice.

INGESTION: Call for medical help immediately. Remove stomach contents by gastric suction or vomiting only as directed by medical personnel.

SECTION 5. FIRE FIGHTING MEASURES

May generate toxic or irritating combustion products, including carbon monoxide.

Product will only burn after driving off its water content.

Sudden reaction, possible explosion and fire may result if mixed with oxidising agents such as peroxides.

Firefighters should wear self-contained breathing apparatus, rubber butyl boots, body suit and gloves.

For dry polymer use water or carbon dioxide. Evacuate personnel from vicinity and downwind.

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SECTION 6. ACCIDENTAL RELEASE MEASURES - SEE ALSO SECTIONS 5,8 & 13

Contain. Build a dike around spill. Ventilate the area. Shut off or remove all ignition sources. Recover or admix with non-reactive absorbent and collect. Quickly flush contaminated area and property with water spray before product dries. Clean-up personnel must be equipped with butyl rubber boots and self-contained breathing apparatus. Spilled product is very slippery and may foam in water. Keep out of drains and sewers as may impart a permanent white colour to water which cannot be removed by sewage treatment processes.

SECTION 7. HANDLING AND STORAGE

Keep away from alkalis and oxidisers. Keep in cool, dry, ventilated storage and in closed containers. Avoid freezing. Minimise air exposure to prevent inoculation with microorganisms. Avoid contact with skin or eyes. Do not eat, drink or smoke while handling. Do not use in spray applications without strict conformance to applicable electrical codes and maximum allowable airborne concentrations.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear impervious gloves, long-sleeved clothing & splash-proof eye goggles.

Avoid skin contact as is a skin sensitiser.

INHALATION: In case of insufficient ventilation, use suitable respiratory protection. Also use respiratory protection during repair and cleaning of equipment, during transfer or discharge of the product and for sample/spray applications.

SKIN: Avoid direct contact. Use barrier cream and impervious gloves.

EYES: Use splash-proof eye goggles. In emergencies, use eye goggles with a full-face shield.

INGESTION: Observe the rules of hygiene. Wash before eating, drinking, smoking or using the toilet. Wash after every work shift.

Appropriate hand protection and protective clothing must always be used.

Other precautions: Readily accessible emergency showers and eye wash stations.

Exposure limits have not been established.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

CHEMICAL CLASS: POLYAMINE SOLUTION APPEARANCE: YELLOW/RED LIQUID

SPECIFIC GRAVITY: 1.04 VISCOSITY: 40000 CPS @25 °C

ODOUR: AMMONIACAL pH: ALKALINE

VAPOUR PRESSURE: 15.00 mg Hg @ 21°C VAPOUR DENSITY: of water vapour (air = 1)

BOILING POINT: 100 °C FLASH POINT: >100 °C AUTO-IGNITION TEMP.: >150 °C

FIRE HAZARD CLASSIFICATION: CLASS IIIB

SECTION 10. STABILITY AND REACTIVITY

STABILITY: Stable if stored under normal conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity Oral : LD50, rat, 2960 mg/kg

Acute toxicity Dermal : LD50, rabbit, >5000 mg/kg

Acute toxicity Inhalation : LD50, rabbit – No data

Other acute effects : No data

Irritation effects data : Projecting respiratory irritation due to mild skin irritation

Chronic/Subchronic data: No delayed, subchronic or chronic test data are known.

Skin sensitisation : Skin sensitiser

Repeated dose toxicity : May cause allergic reaction/sensitisation.

Adverse respiratory effects: cough, tightness of chest or shortness of breath.

Adverse eye effects: conjunctivitis or corneal damage.

Adverse skin effects: rash, irritation or corrosion.

Repeated/prolonged exposure to vapours may cause transient sore throat and eye irritation.

SECTION 12. ECOLOGICAL INFORMATION

Information is insufficient to classify. No data available.

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SECTION 13. DISPOSAL CONSIDERATIONS

Comply with all regulations. For small amounts, obtain approval for disposal to wastewater treatment plant. Causes water to turn milky, which may not be removed and may also cause foaming. Can be chemically or biologically degraded. For large quantities, dispose through licensed waste disposal contractor. Can be incinerated. Solids may be removed by chemical precipitation/coagulation. Difficult to remove when dry.

SECTION 14. TRANSPORT INFORMATION

DOT Non-bulk Shipping Name : Resin compound – Not DOT Regulated
DOT Bulk Shipping Name : Refer to Bill of Lading
IMO Shipping Name : Refer to Bill of Lading
ICAO/IATA Shipping Data : Resin Compound – Not IATA Regulated

SECTION 15. REGULATORY INFORMATION

US Federal Regulations TSCA : Toxic components – none
OSHA 29CFR1910.1200 : Irritant, sensitiser
EPA SARA Title III Section 312 (40CFR370): Immediate health hazard. Delayed health hazard.
EPA SARA Title III Section 313 (40CFR372): No toxic chemicals above 'de minimis' level.
EC classification : Irritant
EC symbols : Xi - Irritant
EC Risk phrases : R38 Irritating to eyes and skin.
R41 Risk of serious damage to eyes.
R52/53 Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.

EC Safety phrases : S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39 Wear suitable gloves and eye/face protection.
S61 Avoid release into the environment. Refer to special instructions/safety data sheets.

SECTION 16. OTHER INFORMATION

THIS SUBSTANCE IS A POTENTIAL SENSITISER - ENSURE PRECAUTIONS ARE TAKEN.
IN CASE OF ANY DISCOMFORT ALWAYS SEEK MEDICAL ADVICE.

This MSDS conforms to General Administrative Regulations dated 6 September 1996
(ISO-11014/ANSIZ400.1.1996)

All information is given in good faith but without guarantee in respect of accuracy.

No responsibility is accepted for errors or omissions or the consequences thereof.

These recommendations were extracted from the EcoChem database using the HAZMAN programme.

Updated: June 2009