

Part# 14036

MATERIAL SAFETY DATA SHEET

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Revised 9/15/98

Replaces 3/10/98

Printed 10/06/98

METRON (R) ACTUATOR DR 2006/C2

ICI GENERAL CHEMICALS

MSDS ID: 42080

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

ICI Americas Inc.
Concord Plaza, 3411 Silverside Road
P.O. Box 15391
Wilmington, DE 19850

ICI Operator (24 hr.): (302) 887-3000
Medical Emergency (24 hr.): (800) 228-5635 Extension 181
Chemical Emergency (24 hr.) Involving Transportation
Spills, Leaks, Fires, Accidents: (800) 424-9300

Material Name: METRON Actuator DR 2006/C2

Hazard summary (as defined by OSHA Hazard Comm. Std., 29 CFR 1910.1200):
Physical hazards: On electrical initiation, this device operates very quickly. A small brass piston is ejected from the front of the device which presents a hazard to unprotected eyes.

Health hazards: None

Read the entire MSDS for a more thorough evaluation of the hazards.

2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	Explosive Wt.	OSHA PEL
Contains gas generating explosive materials	<100mg	Not listed

Ingredients not precisely identified are proprietary or nonhazardous.
Values are not product specifications.

3 PHYSICAL DATA

Appearance and odor: Small brass cylinders with two wires
Boiling point: Not applicable
Vapor pressure (mm Hg at 20 deg. C): Not applicable
Vapor density (air = 1): Not applicable
Solubility in water: Not applicable
pH: Not applicable
Specific gravity: Not applicable
% Volatile by volume: Not applicable

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4 FIRE AND EXPLOSION HAZARD DATA

Flashpoint: Will not flash.
Autoignition temperature: No data
Flammable limits (STP): No data

Extinguishing media:
Water fog, foam, carbon dioxide, dry chemical, halogenated agents.

Special fire fighting protective equipment:
Self-contained breathing apparatus with full facepiece and protective clothing.

Unusual fire and explosion hazards:
These devices present minor projection hazard when heat causes the integrity of the construction to break down.

5 REACTIVITY DATA

Stability:
Stable under normal conditions.

Incompatibility:
Keep away from heat. Take precautionary measures against static discharge. Avoid shock and friction.

Hazardous decomposition products:
Post detonation fumes contain lead and oxides of nitrogen.

Hazardous polymerization:
Will not occur.

6 HEALTH HAZARD ASSESSMENT

General:
These devices are sealed and present no toxicological hazard. The health hazard information presented below is for the possible hazardous post detonation effects.

Ingestion:
It is highly unlikely that post detonation fumes would be swallowed.

Eye contact:
On electrical initiation, this device operates very quickly. A small brass piston is ejected from the front of the device which may present a hazard to unprotected eyes.

Post detonation fumes could be irritating to eyes. However, only very small quantities of gases would be released by each device.

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6 HEALTH HAZARD ASSESSMENT (Cont.)

Skin contact:

Post detonation fumes are not likely to be irritating to human skin.

Skin absorption:

Post detonation fumes are not likely to be absorbed through human skin.

Inhalation:

Post detonation fumes could be irritating to respiratory passages. However, only very small quantities of gases would be released by each device.

Other effects of overexposure:

No other adverse clinical effects have been associated with exposure to these devices.

First aid procedures:

General: The following first aid information is provided in case of contact with post detonation fumes.

Skin: Wash material off of skin with plenty of soap and water. If redness, itching or a burning sensation develops, get medical attention. Wash contaminated clothing and decontaminate footwear before reuse.

Eyes: Immediately flush with plenty of water for at least 15 minutes. If redness, itching or a burning sensation develops, have eyes examined and treated by medical personnel.

Ingestion: Highly unlikely to occur. If gastrointestinal symptoms develop following exposure to post detonation fumes, consult medical personnel.

Inhalation: Remove victim to fresh air. If a cough or other respiratory symptoms develop, consult medical personnel.

7 SPILL AND LEAK PROCEDURES

Steps to be taken in case material is released or spilled:

Wear eye and respiratory protection during cleanup of these devices. Avoid unnecessary movement. Cordon off the spill area. Pick up the devices by hand. Avoid unnecessary impact or friction. Repack the undamaged devices and separate out the visibly damaged devices for subsequent disposal. (See Section 7 Disposal Method).

Disposal method:

Individual unwanted devices should be fired by application of the correct firing current. Large numbers of devices should be disposed of by burning in a controlled manner. Eye protection should be worn to prevent injury from emergence of the pistons from the devices. After

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7 SPILL AND LEAK PROCEDURES (Cont.)

firing, these devices are nonhazardous under RCRA, 40 CFR 261. Dispose of in a facility permitted for nonhazardous waste.

Container disposal:

Remove all devices from the container and puncture or otherwise destroy empty container before disposal.

8 SPECIAL PROTECTION INFORMATION

TLV (R) or suggested control value:

No ACGIH TLV or OSHA PEL assigned. Minimize exposure in accordance with good hygiene practice.

Ventilation:

Use ventilation adequate to maintain safe levels.

Respiratory protection:

Post detonation, use MSHA-NIOSH approved respirator for dusts, mists and fumes whose TLV is greater than 0.05 mg/m³ when entering unventilated areas.

Protective clothing:

Post detonation, use adequate clothing to prevent skin contact when entering unventilated areas.

Eye protection:

Post detonation, wear chemical tight goggles and full faceshield when entering unventilated areas.

Other protective equipment:

Eyewash station and safety shower in work area.

9 SPECIAL PRECAUTIONS AND OTHER COMMENTS

Special precautions and other comments:

Keep in a dry area at temperatures of 50 - 85 deg. F (10 - 30 deg. C). Keep away from flammable materials and sources of heat and flame. Take precautions against static discharge. Avoid shock and friction.

10 REGULATORY INFORMATION

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710:
These devices are considered to be articles.

CERCLA and SARA Regulations (40 CFR 355, 370 and 372):
This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

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10 REGULATORY INFORMATION (Cont.)

Alcohol, Tobacco & Firearms (27 CFR 55.32):

This product is exempt from regulation as an explosive device under 27 CFR 55, pursuant to a special exemption granted by the AFT under 27 CFR 55.32.

*** This line or section contains revision or new statements since the last issue date.

The information herein is given in good faith,
but no warranty, expressed or implied, is made.