

VAN BEN INDUSTRIES,INC. -- FUEL,COMPRESSED,TRIOXANE,RATION HEATING --
9110-00-889-3553

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===== Product Identification =====

Product ID:FUEL,COMPRESSED,TRIOXANE,RATION HEATING

MSDS Date:04/09/1991

FSC:9110

NIIN:00-889-3553

MSDS Number: BMQHP

=== Responsible Party ===

Company Name:VAN BEN INDUSTRIES,INC.

Address:REAR OF 530 MAIN STREET

City:CLINTON

State:MA

ZIP:01510

Info Phone Num:508-368-8145

Emerge

ncy Phone Num:508-368-8145

Preparer's Name:JOHN E. GORMAN

CAGE:3Z202

=== Contractor Identification ===

Company Name:VAN BEN INDUSTRIES INC.

Address:530 MAIN STREET (REAR)

Box:330

City:CLINTON

State:MA

ZIP:01510

Country:US

Phone:508-368-8145/MICHAEL MARONI

CAGE:3Z202

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===== Composition/Information on Ingredients =====

Ingred Name:1,3,5-TRIOXANE

CAS:2396-42-1

RTECS #:YK0400000

Fraction by Wt: 95%

Other REC Limits:NONE SPECIFIED

OSHA PEL:NOT ESTABLISHED.

ACGIH TLV:NOT ESTABLISHED

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===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE AND CHRONIC- PRODUCT IS
CONSIDERED PRACTICALLY NON-TOXIC BY INHALATION OR INGESTION.
ESSENTIALLY NON-IRRITATING TO SKIN AND NON-SENSITIZING. IF IN EYES,
MAY CAUSE IRRITATION.
Explanation of Carcinogenicity:PRODUCT MAY DECOMPOSE AND RELEASES
FORMALDEHYDE WHICH IS
LISTED AS CARCINOGEN BY ALL THREE AGENCIES.
Effects of Overexposure:MAY CAUSE EYE IRRITATION.
Medical Cond Aggravated by Exposure:NONE KNOWN.

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===== First Aid Measures =====

First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. SKIN: WASH WITH
SOAP & WATER. EYE: FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS
OPEN. INHALED: REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED.
ORAL: IF CONSCIOUS, DRINK TWO GLASSES OF WATER & SEEK MEDICAL
ATTENTION.

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===== Fire Fighting Measures =====

Flash Point Method:OC
Flash Point:113F,45C
Autoignition Temp:Autoignition Temp Text:777F
Lower Limits:3.6
Upper Limits:29
Extinguishing Media:WATER SPRAY, CO2, FOAM/DRY CHEMICAL. WATER SPRAY
MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL & FLUSH SPILLS
AWAY.
Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND
NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL
FACEPIECE OPERATED IN THE
POSITIVE PRESSURE MODE.
Unusual Fire/Explosion Hazard:CONSIDERED A MODERATE FIRE RISK. BURNS
WITH COLORLESS FLAME.

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===== Accidental Release Measures =====

Spill Release Procedures:AVOID SPARKS, OPEN FLAME OR ANY OTHER SOURCES
OF IGNITION. AVOID CONTACT WITH STRONG ACIDS OR OXIDIZING AGENTS.
VENTILATE AREA. PLACE IN TIGHTLY CLOSED CONTAINERS PENDING
DISPOSAL.
Neutralizing Agent:NONE

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===== Handling and Storage =====

Handling and Storage Precautions: STORAGE- STORE IN A COOL, DRY,
VENTILATED AREA AWAY FROM HEAT, FLAME, SPARKS.

Other Precautions: AVOID CONTACT WITH EYES. WASH THOROUGHLY AFTER
HANDLING.

===== Exposure Controls/Personal Protection =====

Respiratory Protection: WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING
APPARATUS OPERATED IN POSITIVE PRESSURE MODE IF VENTILATION IS
INADEQUATE.

Ventilation: GOOD GENERAL VENTILATION IS SUFFICIENT. USE LOCAL EXHAUST
WHEN APPRO

PRIATE TO CONTROL EMPLOYEE EXPOSURE.

Protective Gloves: RUBBER OR NEOPRENE

Eye Protection: SAFETY GOGGLES.

Other Protective Equipment: EYE WASH STATION, QUICK DRENCH SHOWER AND
IMPERVIOUS CLOTHING

Work Hygienic Practices: USE GOOD INDUSTRIAL HYGIENE PRACTICE. AVOID
UNNECESSARY CONTACT.

Supplemental Safety and Health

FORMULA CHANGED. FOR PREVIOUS FORMULATION, SEE PNI A UNDER THE SAME
NSN.

===== Physical/Chemical Properties =====

HCC: F8

Boiling Pt: B.P. Text: 23

8F, 114C

Melt/Freeze Pt: M.P/F.P Text: 142F, 61C

Vapor Pres: 10

Vapor Density: 1.0 - 1.2

Spec Gravity: 1.17

Solubility in Water: 17.2 % @ 18C

Appearance and Odor: WHITE CRYSTALS WITH PLEASANT ETHER-LIKE ODOR

Percent Volatiles by Volume: 100

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

STRONG OXIDIZERS, STRONG MINERAL ACIDS

Stability Condition to Avoid: HEAT, IGNITION SOURCES

Hazardous Decomposition Products: FORMALDEHYDE, PARAFORMALDEHYDE,

CARBON
MONOXIDE AND CARBON DIOXIDE

===== Disposal Considerations =====

Waste Disposal Methods:INCINERATE IN CHEMICAL INCINERATOR IN ACCORDANCE
WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

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