

AEROJET PROPULSION DIVISION -- BIS-(2,2-DINITROPROPYL) ACETAL/FORMAL --
6810-01-202-4530

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

Product ID:BIS-(2,2-DINITROPROPYL) ACETAL/FORMAL

MSDS Date:03/01/1991

FSC:6810

NIIN:01-202-4530

MSDS Number: BMBXR

=== Responsible Party ===

Company Name:AEROJET PROPULSION DIVISION

Box:13222

City:SACRAMENTO

State:CA

ZIP:95813-6000

Country:US

Info Phone Num:916-355-4770

Emer

gency Phone Num:916-355-4770

CAGE:JO419

=== Contractor Identification ===

Company Name:AEROJET PROPULSION

Box:13222

City:SACRAMENTO

State:CA

ZIP:95813-6000

Country:US

Phone:914-355-4000

CAGE:JO419

Company Name:AEROJET SOLID PROPULSION CO

Address:HIGHWAY 50 AND HAZEL AVENUE

Box:15699C

City:SACRAMENTO

State:CA

ZIP:95852-1699

Country:US

Phone:916-355-5124

CAGE:58339

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

Ingred Name:BIS-(2,2-DINITROPROPYL)ACETAL

CAS:5108-69-0

Fractio

n by Wt: 45-55%

Ingred Name: BIS-(2,2-DINITROPROPYL) FORMAL

CAS: 5917-61-3

Fraction by Wt: 45-55%

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

LD50 LC50 Mixture: LD50: (ORL, RAT)=2190 MG/KG

Routes of Entry: Inhalation: YES Skin: YES Ingestion: NO

Reports of Carcinogenicity: NTP: NO IARC: NO OSHA: NO

Health Hazards Acute and Chronic: ACUTE: MAY CAUSE MILD IRRITATION TO SKIN AND MUCOUS MEMBRANES. CHRONIC: NO KNOWN EFFECTS.

Explanation of Carcinogenicity: NOT RELEVANT

Effects

of Overexposure: NONE SPECIFIED BY MANUFACTURER.

Medical Cond Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.

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

First Aid: EYES: WASH WITH WATER FOR AT LEAST 15 MINUTES. REPORT TO MEDICAL. SKIN: WASH WITH SOAP AND WATER. INHAL: REMOVE TO FRESH AIR. INGEST: REPORT TO MEDICAL.

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

Flash Point Method: SCC

Flash Point: >240F, >116C

Extinguishing Media: WAT

ER, CO2, FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures: USE NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT TO AVOID COMBUSTION PRODUCTS.

Unusual Fire/Explosion Hazard: SEE OTHER PRECAUTIONS.

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

Spill Release Procedures: CONTAIN WITH ABSORBENT MATERIAL AND PLACE IN APPROVED CONTAINERS FOR DISPOSAL ACCORDING TO INSTRUCTIONS FROM CENTRAL WASTE MANAGEMENT OR OTHER APPROVED LOCAL, STATE OR FEDERAL AGENCY.

Neutral

zing Agent:ANY INERT ABSORBENT MATERIAL.

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Handling and Storage
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Handling and Storage Precautions:THE SHIPPING CLASSIFICATION FOR BDNPA/F WAS REDUCED BY DOT FROM A FLAMMABLE LIQUID TO A NON-REGULATED MATERIAL.

Other Precautions:BDNPA/F MAY BE UNSTABLE UNDER EXTREME CONDITIONS, E.G.: THE COMBINATION OF HIGH TEMPERATURES (74C) AND HIGH SHOCK WAVE CONDITIONS (#8 BLASTING CAP WITH 33 GRAM COMP C-4 BOOSTER).

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Exposure Control
Is/Personal Protection
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Respiratory Protection:IN WELL VENTILATED AREAS NO RESPIRATOR IS REQUIRED. IN POORLY VENTILATED AREAS WEAR NIOSH/MSHA APPROVED ORGANIC VAPOR CARTRIDGE RESPIRATOR. IN CONFINED SPACES WEAR NIOSH/MSHA APPROVED AIRLINE RESPIRATOR OR SCBA.

Ventilation:GENERAL ROOM VENTILATION IS ADEQUATE.

Protective Gloves:NEOPRENE.

Eye Protection:CHEMICAL WORKERS GOGGLES .

Other Protective Equipment:AS NECESSARY TO PREVENT SKIN CONTACT.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health
NONE SPECIFIED BY MANUFACTURER.

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Physical/Chemical Properties
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HCC:T6

Boiling Pt:B.P. Text:257F,125C

Melt/Freeze Pt:M.P/F.P Text:59.0F,15.0C

Vapor Pres:0.0000002

Spec Gravity:1.392

Evaporation Rate & Reference:NEGLIGIBLE

Solubility in Water:NEGLIBIGLE

Appearance and Odor:STRAW COLORED TO BROWN LIQUID, OILY ODOR.

Percent Volatiles by Volume:0

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Stability and Reactivity Data
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Stability Indicator/Materials to Avoid: YES
NONE SPECIFIED BY MANUFACTURER.
Stability Condition to Avoid: KEEP AWAY FROM HEAT AND FLAME.
Hazardous Decomposition Products: COX AND NOX.

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

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE
FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

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