

PACIFIC SCIENTIFIC CORP -- 12314494-2(TACOM MODEL);36400010-2(RYAN,FB MODEL) --
4210-01-269-8376

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

Product ID:12314494-2(TACOM MODEL);36400010-2(RYAN,FB MODEL)

MSDS Date:06/01/1993

FSC:4210

NIIN:01-269-8376

MSDS Number: CGLGB

=== Responsible Party ===

Company Name:PACIFIC SCIENTIFIC CORP

Address:HIGHWAY 52 NW

Box:2200

City:WEST LAFAYETTE

State:IN

ZIP:47906

Country

:US

Info Phone Num:317-463-2511

Emergency Phone Num:501-862-5141

CAGE:05167

=== Contractor Identification ===

Company Name:PACIFIC SCIENTIFIC CO HTL/KIN-TECH DIVISION

Address:1800 HIGHLAND AVE

Box:City:DUARTE

State:CA

ZIP:91010

Country:US

Phone:818-359-9317/602-796-1100

CAGE:05167

Company Name:RYAN F B MFG CO INC

Box:451

City:CHARITON

State:IA

ZIP:50049-0451

Country:US

Phone:602-961-1100

CAGE:01567

Company Name:U S ARMY TANK AUTOMOTIVE COMMAND AMSTA-TFP

Address:11 MILE RD

Box:City:WARREN

State:M

I
ZIP:48397
Country:US
Phone:AV 786-6293 MSDS CALL SKIP ROBERTS
CAGE:19207

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Composition/Information on Ingredients
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Ingred Name:BROMOTRIFLUOROMETHANE (HALON 1301) (SARA 313) (CERCLA)
CAS:75-63-8
RTECS #:PA5425000
Fraction by Wt: 100%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1000 PPM
ACGIH TLV:1000 PPM; 9495
Ozone Depleting Chemical:1

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Hazards Identification
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LD50 LC50 Mixture:LC50 RATS= >800,000 PPM FOR FOUR HOURS.

Rou

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

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

Health Hazards Acute and Chronic:ACUTE/CHRONIC: PRODUCT HAS ANESTHETIC AND CARDIAC EFFECTS IN HUMANS AT CONCENTRATIONS ABOVE 10% BY VOLUME, CONCENTRATIONS BELOW 10% CONSIDERED SAFE FOR 0-5 MINUTE EXPOSURES.PRODUCT CLASSIFIED AS GROUP 6 (LEAST TOXIC) IN UNDERWRITERS LABORATORIES CLASSIFICATION OF COMPARATIVE LIFE HAZARDS OF FIRE EXTINGUISHING AGENTS.

Explanation of Carcino

genicity:NONE

Effects of Overexposure:ANESTHETIC EFFECT AT LEVELS BELOW 10% IS SIMILAR TO A FEELING OF MILD INTOXICATION. ANESTHETIC EFFECTS END RAPIDLY AFTER EXPOSURE IS TERMINATED. PROLONGED EXPOSURE TO CONCENTRATIONS ABOVE 10% (15-20%) MAY LEAD TO UNCONSCIOUSNESS AND POSSIBLY DEATH.

Medical Cond Aggravated by Exposure:CARDIAC CONDITIONS MAY BE AGGRAVATED BY OVEREXPOSURE.

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First Aid Measures
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First Aid:EYES: FLUSH WITH WATE

R. GET MEDICAL ATTENTION. SKIN: FLUSH WITH WATER. GET MEDICAL ATTENTION IF FROSTBITE OCCURS. INHALATION: MOVE TO FRESH AIR. IF NOT BREATHING, GIVE CPR. IF BREATHING DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION. NOTE: EPINEPHRINE IS CONTRAINDICATED IN THE TREATMENT OF OVER-EXPOSURE TO THIS PRODUCT.

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

Flash Point:NON-FLAMMABLE

Extinguishing Media:HALON 1301 IS EXTINGUISHING AGENT. USE WATER SPRAY TO COOL CYLINDERS INVOLVED IN FIRES.USE MEDIA SUITABLE FOR AREA FIRE.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:ABOVE 1000F, HALON 1301 MAY RELEASE HYDROGEN FLUORIDE, HYDROGEN BROMIDE, CARBONYL FLUORIDE AND CARBONYL BROMIDE.

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

Spill Release Procedures:EVACUATE AREA. WEAR SELF-CONTAINED BREATHING APPARATUS. VENTILATE ENCLOSED AREAS IN CASE OF DISCHARGE.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:PROTECT EXTINGUISHERS AND CYLINDERS FROM PHYSICAL DAMAGE. STORAGE TEMPERATURE SHOULD NOT EXCEED 125F.

Other Precautions:CYLINDERS SHOULD BE SECURED FOR STORAGE WITH VALVE PROTECTION CAP IN PLACE.

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

Respiratory Protection:WEAR NIOSH APPROVED, SELF-CONTAINED BREATHING APPARATUS AT CONCENTRATIONS GREATER THAN 10,000 PPM AS RECOMMENDED BY NIOSH. CONSULT ANSI STANDARD AND OSHA REGULATIONS CONCERNING THE USE OF RESPIRATORY EQUIPMENT. AVOID PROLONGED EXPOSURE.

Ventilation:MATERIAL TRANSFER AND HANDLING SHOULD BE CONDUCTED WITH AN EXHAUST SYSTEM.

Protective Gloves:WEAR GLOVES TO PROTECT AGAINST FROSTBITE

Eye Protection:WEAR CHEMICAL SAFETY GOGGLES.

Other Protective Equipment:DO NOT WEAR CONTACT LENSES.

Work Hygienic Practices:CHECK THAT PIPING IS EMPTY BEFORE DOING

MAINTENANCE WORK. PERIODICALLY CHECK CYLINDERS TO ENSURE VALVES ARE NOT LEAKING.

Supplemental Safety and Health
NONE

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

HCC:G3
Boiling Pt:B.P. Text:-72F,-58C
Melt/Freeze Pt:M.P/F.P Text:-270F,-168C
Vapor Pres:6200 AT 0C
Vapor Density:5.1
Spec Gravity:1.57 AT 20C
Solubility in Water:0.03% BY WEIGHT
Appearance and Odor:COLORLESS GAS. ODORLESS.
Percent Volatiles by Volume:100

===== Stability and Reactivity Dat

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Stability Indicator/Materials to Avoid:YES
ACTIVE METALS, FIRES OF METAL HYDRIDES, MATERIAL CONTAINING OWN OXYGEN.
PRODUCT MAY DEGRADE CERTAIN POLYMERIC MATERIALS.
Stability Condition to Avoid:NONE
Hazardous Decomposition Products:HYDROGEN FLUORIDE, HYDROGEN BROMIDE,
BROMINE, CARBONYL FLUORIDE, CARBONYL BROMIDE. SMOKING CAN FORM
THESE CHEMICALS.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

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Waste Disposal Methods:HALON 1301 IS RECYCLED.CONTACT THE DLA ODS
POLICY GROUP AT DEFENSE SUPPLY CENTER RICHMOND.

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