

REFLEX PROTECT[®] TACTICAL

OC VAPOR AEROSOLS Safety Data Sheet

DATE OF PREPARATION: November 16, 2023

MANUFACTURING LOCATION: Canton, Ohio

EMERGENCY TELEPHONE:

(954) 565-8475

AFTER HOURS 800-424-9300

SECTION 1 PRODUCT IDENTIFICATION

Product Name: OC Aerosol Grenade (various sizes)

Product Class: Self Defense Spray, Aerosol

D.O.T. Shipping Class: ORM-D Consumer Commodity, Aerosol Non Flammable UN1950

SECTION 2 HAZARDOUS IDENTIFICATION

Aerosol, Non Flammable UN 1950 2.1



GHS04

GHS07

Caution

Contents under pressure trans 1,3,3,3, Tetrachloroprop-1-ene Pepper spray contains Oleoresin Capsicum (Capsaicin) food grade cayenne pepper oil not regulated as hazardous material but is a strong irritant inflammatory agent effecting eyes, skin and respiratory system

GHS-US labeling

Hazard pictograms (GHS-US) :

GHS02

GHS07

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

Precautionary statements (GHS-US) : P210 - Keep away from heat, hot surfaces, open flames, sparks.

- No smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P264 - Wash exposed skin thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area
 P280 - Wear eye protection, face protection, protective clothing, protective gloves
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell
 P337+P313 - If eye irritation persists: Get medical advice/attention
 P370+P378 - In case of fire: Use dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2) to extinguish
 P501 - Dispose of contents/container to comply with local, state and federal regulations
 P235 - Keep cool
 If inhaled: Remove person to fresh air and keep comfortable for breathing

PUNCHII 2K3 is a strong irritant effecting skin, eyes nose and breathing. It is a non-persistent acute (short term) exposure which can be relieved with running water and soap for cleanup of the oleoresin capsicum.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	PERCENT	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE
		TLV	PEL	
PROPRIETARY BLEND CARRIER		103	145	17.4
2003 SPECIAL FORMULA 2K3				
TRADE SECRET: As defined in Hazard Communication				
Act 29 CFR 1910.1200 Para 1 (i) end Appendix D to CFR 1910.1200				
PROPELLANT 1234ZE Case 21118-24-9		8000	8000	70 PSIG @ 70oF

ACTIVE INGREDIENTS

OLEORESIN CAPSICUM 2 MILLION SHU Not Established Not Known

SECTION 4 FIRST AID MEASURES.

PRIMARY ROUTE (S) OF ENTRY: Dermal, Inhalation, Eyes

EMERGENCY AND FIRST AID PROCEDURE:

EYES: Flush eyes with large quantities of water to speed recovery. Face subject into wind or forced air source such as fans or air conditioning outlet. Wash face with mild soap

SKIN CONTACT: Remove contaminated clothing. Wash affected area with soap and water to avoid transfer to more sensitive areas. Burning sensation with skin contact in most areas. Use no creams or salves. Persons with preexisting skin disorders may be more susceptible to the effects of this agent. Remove contaminated clothing

INHALATION Irritant stimulation of facial nerves causes feeling of restricted airway. No danger exists for asphyxiation Remove persons to fresh air. Move individual away from exposure to fresh air.

EYE EFFECTS This product is an eye irritant. Tearing and redness may occur. This product has been thoroughly tested by FDA approved Labs and has been found to have minor non persistent eye

irritation, to be non toxic, and not to cause dermatitis.

SECTION 5 FIRE FIGHTING MEASURES

FIRE AND SAFETY EXPLOSION HAZARD DATA

Flammability Classification OSHA:	Non Flammable
Shipping Classification D.O.T.:	ORM-D
Flash Point:	Not Determined exceeds 3000F
Flammable Levels in Air:	Lower: N/A Upper: N/A
Extinguishing Media:	Foam, Water Fog, CO2

Unusual Fire and Explosion Hazards: Do not expose to heat or flame or store above 120o F as high internal pressures may cause leaking.

Special Fire Fighting Procedures: Suitable extinguishing media, dry chemical, carbon dioxide, water spray. Full protective equipment including self contained breathing apparatus should be used, Fog nozzles should be used to cool closed containers to prevent pressure buildup. Move undamaged containers from fire area if accomplished without risk.

Precaution for Fire Fighting No flash point. This products contains halogens which inhibit flashing until the solvent has evaporated away. Use water spray to cool containers until fire is out.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate area. Remove all possible sources of ignition. Avoid prolonged breathing of vapors. Confine spill with inert absorbent. Wear protective equipment during clean up.

WASTE DISPOSAL: Incinerate in an approved incinerator or dispose of in accordance with Local, State and Federal Regulations

Personal Precautions Persons not wearing protective equipment should be excluded from the area of the spill until clean up is completed.

Methods for Clean Up Keep in suitable containers for disposal soak up spill with absorbent pads, absorbent socks or loose absorbent.

Other; comply with all applicable federal, state and local regulations.

SECTION 7 HANDLING AND STORAGE

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved Chemical/Mechanical type filter system to remove a combination or particles, gas & vapor. Use air line if necessary.

VENTILATION: Use adequate ventilation in volume and pattern to keep LEL and TLV's in Section II below recommended level to produce explosion or fire. General mechanical ventilation should comply with OSHA 1910.94.

PROTECTIVE GLOVES: Use rubber gloves.

EYE PROTECTION: Safety glasses or goggles with splash guards or side shields.

OTHER PROTECTIVE EQUIPMENT: Prevent prolonged skin contact to contaminated clothing.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT	PERCENT	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE
		TLV	PEL	
PROPRIETARY BLEND CARRIER 2003 SPECIAL FORMULA 2K3		103	145	17.4
TRADE SECRET: As defined in Hazard Communication Act 29 CFR 1910.1200 Para 1 (i) end Appendix D to CFR 1910.1200				
PROPELLANT 1234ZE Case 21118-24-9		8000	8000	70 PSIG @ 70oF
ACTIVE INGREDIENTS				

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid and Non Flammable gas in an aerosol can
Boiling Range:	-26.5°C (-15°F) for gas 121.3°C/250.3°F for liquid
Vapor Pressure:	68 PSIA @ 25°C -77°F
Vapor Density:	4.3 (air=1) Heavier than air
Percentage Volatile by weight:	99%
Evaporation Rate:	1.7 (Butyl Acetate=1)
Weight per gallon:	>9 lbs.
Specific Gravity:	1.6 @ 60° F
Appearance:	Amber Liquid
Odor:	Slight Pungent Odor
Lower explosive Limit:	No Data Available
Upper explosive Limit:	No Data Available

SECTION 10 STABILITY REACTIVITY

STABILITY:	Stable
HAZARDOUS POLYMERIZATION:	Will Not Occur
CONDITIONS TO AVOID:	Heat, open flames.
INCOMPATIBILITY (MATERIALS TO AVOID):	Strong Acids, Alkalies and Oxidizers.

SECTION 11 TOCICOLGICAL INFORMATION

EYE EFFECTS This product is an eye irritant. Tearing and redness may occur. This product has been thoroughly tested by FDA approved Labs and has been found to have minor non persistent eye irritation, to be non toxic, and not to cause dermatitis.

SECTION 12 ECOLOGICAL INFORMATION

For detailed Ecological data, write or call the address or non-emergency number shown in Section 1 ENVIRONMENTAL FATE

MOVEMENT & PARTITIONING: Bioconcentration potential is low (BCF less than 100 or Log Pow less than 3). Bioconcentration factor (BCF) is a 49 in the bluegill. Bioconcentration factor (BCF) is 38.9 in the trout. Log octanol/water partition coefficient (log Pow) is 3.4. Potential for mobility in soil OR® INDICATES A TRADEMARK OF THE DOW CHEMICAL COMPANY IS MEDIUM (Koc between 150 and 500). Log soil organic carbon partition coefficient (Log Koc) is estimated to be 2.1-3.2. Henry's Law Constant (H) is 1.49E-02 atm-m³/mol. Log air/water partition coefficient (log Kaw) is estimated to be -0.30 to 0.37.

DEGRADATION & PERSISTENCE: Biodegradation under aerobic conditions is below detectable limits. Theoretical oxygen may occur under anaerobic conditions (in the absence of oxygen). Degradation is expected in the atmospheric environment within days to weeks/ Biodegradation rate may increase in soil and/or water with acclimation

ECOTOXICOLOGY: Material is moderately toxic to aquatic organisms on an acute basis (LC50 between 1 and 10 mg/L in most sensitive species). Acute LC50 for Japanese medaka or rice fish (*Oryzias latipes*) is 1.6 mg/L Acute LC50 for rainbow trout (*Oncorhynchus mykiss*) is 4.8-5.8 mg/L Acute LC50 for sheepshead minnow (*Cyprinodon variegatus*) is 8.0-52.2 mg/L. Acute LC50 for American Flagfish *Jordenelia Florida* is 8.4-24 mg/L. Acute LC50 for bluegill (*Lepomis macrochirus*) is 13 mg/L. Acute LC50 for fathead minnow (*Pimephales promelas*) is 13.4-23 mg/L. Maximum acceptable toxicant concentration (MATC) is 3.1 mg/L. in American Flagfish
Toxic to Fish
Bio accumulation may occur in high concentration

SECTION 13 DISPOSAL CONSIDERATION

(See Section 15 for Regulatory information)

DISPOSAL: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. THE DOW CHEMICAL COMPANY HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OR PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (Composition/Information On Ingredients).

FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed. Permitted recycler, reclaimer, incinerator or other thermal destruction device.

SECTION 14 TRANSPORTATION INFORMATION

UN1950 Aerosols Non Flammable

SECTION 15 REGULATORY INFORMATION

((Not meant to be all-inclusive—selected regulations represented))

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; with federal, state or provincial and local laws. The following specific information is made for the purpose of complying with numerous federal state or provincial, and local laws and requisitions.

Warning this product contains a chemical known to the State of California to Cause Cancer