

**MATERIAL SAFETY DATA SHEET**

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**2%, 5.3MM SHU, OC PROTECTION SPRAY with UV DYE**

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I. PRODUCT IDENTIFICATION

MSDS #: 103  
DATE: 8-13-98  
EDITION: 001  
PRODUCT NAME: "2% OC + UV" 1½ oz., 2 oz., 3 oz., and 4 oz. (Stream Delivery)  
PRODUCT TYPE: PERSONAL PROTECTION IRRITANT SPRAY

II. COMPOSITION

INGREDIENTS:	CAS No.
TRICHLOROETHYLENE.....	79-01-6
OLEORESIN CAPSICUM.....	8023-77-6
CARBON DIOXIDE.....	124-38-9
UV DYE.....	7128-64-5

III. CHEMICAL AND PHYSICAL PROPERTIES

**VAPOR PRESSURE @ 70 F:** 58 mm Hg @ 20 C  
**VAPOR DENSITY AIR = 1:** 4.54  
**SOLUBILITY IN WATER (WT %):** 0.11  
**SPECIFIC GRAVITY (H2O=1):** 1.25 25 C  
**BOILING POINT:** 88° C  
**EVAPORATION RATE (BuAc=1) :** 0.3  
**pH:** N/A  
**APPEARANCE:** CLEAR RED LIQUID  
**ODOR:** PUNGENT, PEPPERY  
**WT. % VOLATILE:** 97.9

IV. FLAMMABILITY AND EXPLOSIVE PROPERTIES

**FLASH POINT:** NONE (TOC) (COC)  
**HEALTH HAZARD:** 2  
**FIRE HAZARD:** 1  
**REACTIVITY HAZARD:** 0  
**SPECIFIC HAZARD:** CONTENTS UNDER PRESSURE CONTENTS WILL DISCHARGE UNDER FIRE CONDITIONS

ESTIMATED HMIS CODE:

**HEALTH HAZARD:** 2  
**FLAMMABILITY HAZARD:** 1

**REACTIVITY HAZARD: 0**

**PERSONAL PROTECTION: GLOVES, GOGGLES, RESPIRATOR**

**NOTE:** Hazards identification refers to HMIS and NFPA ratings which involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

**FLAMMABILITY LIMITS:**

(% BY VOLUME IN AIR) LOWER: 6.0

(% BY VOLUME IN AIR) UPPER: 16.7

**RECOMMENDED EXTINGUISHING AGENTS:** FOAM, DRY CHEMICAL

**HAZARDOUS PRODUCTS FORMED BY**

**FIRE OR THERMAL DECOMPOSITION:** PHOSGENE, IRRITATING FUMES

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** CONTENTS WILL DISCHARGE

IN FIRE. WILL DECOMPOSE AT TEMPERATURES ABOVE 250 F. DECOMPOSITION PRODUCTS INCLUDE HYDROCHLORIC ACID AND PHOSGENE.

**COMPRESSED GASES:** CARBON DIOXIDE

**PRESSURE AT ROOM TEMP.:** 70 PSIG

V. SPILL OR LEAK AND DISPOSAL PROCEDURES

**STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:** ABSORB ON APPROPRIATE SORBANT, PROVIDE INCREASED VENTILATION

**RECOMMENDED METHODS OF DISPOSAL:** DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL ENVIRONMENTAL LAWS.

VI. STORAGE AND HANDLING PROCEDURES

**STORAGE:** STORE BELOW 100° F. IN SHIPPING CARTON PROVIDED

**HANDLING:** HANDLE WITH CARE, KEEP OUT OF THE REACH OF CHILDREN

VII. SHIPPING REGULATIONS

**DOT HAZARD CLASS:** 2.2

**PROPER SHIPPING NAME:** AEROSOLS, NON-FLAMMABLE

**I.D. NUMBER:** UN 1950

**REPORTABLE QUANTITY:** TRICHLOROETHYLENE: 100 #

**NOTE:** QUALIFIES FOR CONSUMER COMMODITY, ORM-D EXEMPTION

VIII. REACTIVITY DATA

**STABILITY:** STABLE AT AMBIENT TEMPERATURES

**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR

**HAZARDOUS DECOMPOSITION PRODUCTS (NON-THERMAL):** NONE

**INCOMPATIBILITY:** STRONG OXIDIZERS, FINELY DIVIDED ALKALINE METALS, STRONG ACIDS AND STRONG ALKALIS.

IX. EMERGENCY TREATMENT PROCEDURES

**INGESTION:** DRINK LARGE QUANTITIES OF WATER. DO NOT INDUCE VOMITING, TAKE IMMEDIATELY TO A HOSPITAL OR PHYSICIAN

**INHALATION:** REMOVE TO FRESH AIR, GIVE ARTIFICIAL RESPIRATION OR OXYGEN IF NEEDED, CALL A PHYSICIAN

CONFIDENTIAL MSDS. 102- PAGE 3/3

**SKIN CONTACT:** PRIMARY—DECONTAMINATE WITH SUDECON. SECONDARY—REMOVE CONTAMINATED CLOTHING, FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MIN., WASH WITH SOAP AND WATER. DO NOT COVER EFFECTED AREA OR USE CREAMS OR OINTMENTS FOR 6 HOURS. CALL A PHYSICIAN.

**EYE CONTACT:** REMOVE CONTACT LENSES, USE SUDECON. SECONDARY—FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MIN., CONSULT A PHYSICIAN.

X. PERSONAL PROTECTION

**EYES:** SPLASH GOGGLES

**SKIN:** PROTECTIVE CLOTHING

**VENTILATION:** ADEQUATE NATURAL OR FORCED VENTILATION

**NOTE:** FIRE FIGHTING PERSONNEL MUST USE AIR PACK

XI. HEALTH HAZARD DATA

**TOXICITY:** STRONG SKIN AND EYE IRRITANT, ORAL LD 50 (RAT)  
6.4 GM/KG, NOT TOXIC PER 16 CFR, SECTION 1500.3 (5)

**PRIMARY ROUTES OF ENTRY:** INHALATION, SKIN, INGESTION

**SIGNS AND SYMPTOMS OF EXPOSURE:** RESPIRATORY AND SKIN IRRITATION, VIOLENT COUGHING. HIGH INHALED AMOUNTS CAN CAUSE DIZZINESS, UNCONSCIOUSNESS, DEATH. SKIN CONTACT CAN CAUSE LOCAL IRRITATION, OR GENERAL ALLERGIC REACTION IN SENSITIVE INDIVIDUALS. HIGH LEVEL LONG TERM INHALATION EXPOSURE MAY CAUSE LIVER DAMAGE. ALCOHOL CONSUMED BEFORE OR AFTER EXPOSURE MAY INCREASE ADVERSE EFFECTS.

**EXISTING CONDITIONS AGGRAVATED BY EXPOSURE:** CERTAIN ALLERGIES IN SENSITIVE INDIVIDUALS

EXPOSURE LIMITS

INGREDIENTS:

TRICHLOROETHYLENE: TWA: 100 PPM

CARBON DIOXIDE: TWA 10,000 PPM

TARGET ORGANS

INGREDIENTS

TRICHLOROETHYLENE:

OLEORESIN CAPSICUM:

ORGANS

NER, OCU

IRR, OCU, RES

TARGET ORGANS

**ALG** Allergen

**GAS** Gastrointestinal

**MUT** Mutagen

**BLO** Blood

**IRR** Irritant

**NER** Nervous System

**OCU** Ocular

**CAR** Cardiac

**RES** Respiratory

OTHER INFORMATION

**DISCLAIMER:** The supplier provides no warranty and no guarantee, either express or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein. Safe handling and use of this product remains the responsibility of the user. No suggestions for use are intended as, and nothing herein shall be construed as, a recommendation to infringe upon any existing patents or violate any Federal, State or local laws. **California Proposition 65 information.** The State of California requires that the following warning be given concerning this product: WARNING: This product contains a chemical known to the State of California to cause cancer.

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