

MATERIAL SAFETY DATA SHEET

MSDS DATE: 04/14/2008



Zarc International, Inc.
P.O. Box 108
Minonk, IL 61760
Ph 309-432-3838
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REV 02

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CAP-STUN
PRODUCT CODES: Z-205, Z-305, Z-505, Z-606

CAP-STUN® is the registered trademark of ZARC® International, Inc

MANUFACTURER: Zarc International, Inc
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CHEMICAL NAME: Capsaicinoids
CHEMICAL FAMILY: Oleoresin extract of Capsicum Pepper in Alcohol. With the exception of the items listed below, the identity of individual components of ZARC's oleoresin capsicum is proprietary information and is regarded to be a trade secret.
CHEMICAL FORMULA: Aerosol

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Material</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>TLV (Units)</u>	<u>Hazard</u>
Isopropyl Alcohol	67-63-0	Approx 64.00	400	Flammable
Isobutane/Propane	75-28-5	Approx 30.50	1,000	Flammable
Capsaicinoids		Approx 5.5	N/A	Irritant/Inflammatory
Capsaicin	404-86-4			
Nordihydrocapsaicin	19408-84-5			
Dihydrocapsaicin	28789-35			

SECTION 2 NOTES:

Major Capsaicinoids are determined via ASTA Method 21.3 the standard method for analysis of capsaicinoids

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Severe Skin and Eye Irritant. Contents under pressure, Keep out of reach of Children. Do not puncture or incinerate can.

ROUTES OF ENTRY: Ingredients cause irritation through all routes of entry

POTENTIAL HEALTH EFFECTS

EYES: Burning sensation and irritation. Immediate closing of the eyes.

SKIN: Frequent or repeated contact with skin may cause skin irritation

INGESTION: Burning sensation of throat, may cause nausea and stomach pain.

INHALATION: Cough and Burning sensation of the nose, mouth and the throat.

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SECTION 3: HAZARDS IDENTIFICATION, CONT

ACUTE HEALTH HAZARDS: N/A

CHRONIC HEALTH HAZARDS: N/A

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: May cause more severe, temporary, effects on those persons who are asthmatics or suffer from emphysema.

CARCINOGENICITY

OSHA: N/A

ACGIH: N/A

NTP: N/A

IARC: N/A

OTHER: N/A

SECTION 4: FIRST AID MEASURES

EYES: Flush thoroughly with cool water for 15 minutes. Do not rub. Symptoms disappear in 45 minutes. If symptoms persist, seek medical attention immediately.

SKIN: Remove contaminated clothes. Flush affected area thoroughly with cool water to relieve all symptoms.

INGESTION: In the event of accidental swallowing, ingest water and seek medical attention immediately.

INHALATION: Remove subject into fresh air.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition, only after rinsing the affected area with copious amounts of water for up to 45 minutes.

SECTION 4 NOTES: Once symptoms have been relieved, certain individuals may experience burning sensation when water is re-applied.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: 12.7
(% BY VOLUME) LOWER: 2.0

FLASH POINT: F: <-67° C: <-55°

METHOD USED: Flash cup

AUTOIGNITION TEMPERATURE: No Data

NFPA HAZARD CLASSIFICATION

HEALTH: 2

FLAMMABILITY: 1

REACTIVITY: 0

OTHER: 0

HMIS HAZARD CLASSIFICATION

HEALTH: 2

FLAMMABILITY: 1

REACTIVITY: 0

PROTECTION: Wear respirator or self contained breathing apparatus

EXTINGUISHING MEDIA: Water, Dry chemical, Carbon Dioxide

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate all personnel from affected area. Remove all containers from area of fire, if without risk. Use water spray to cool fire exposed containers and structures. Use self contained breathing apparatus and protective clothing. Fight Fire Upwind. Prevent water runoff from entering waterways via sewers, storm drains, etc.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Container may burst due to heat or fire. No part of a container should be subject to a temperature higher than 120 ° F (50 ° C).

HAZARDOUS DECOMPOSITION PRODUCTS: No Data

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SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Avoid contact with eyes. Do not breathe vapor. Absorb liquid spillage onto inert material (e.g. sand). Residues and small spillages may be washed away with water and mild detergent.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store upright in cool, dry area. Avoid direct light and keep away from heat and flame. Do not expose to temperature above 120° F (50° C) May cause bursting of canister.

OTHER PRECAUTIONS: Do not puncture or incinerate container.

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide adequate ventilation

VENTILATION : Yes

RESPIRATORY PROTECTION: Respiratory face mask suggested, but not required under normal conditions.

EYE PROTECTION: Yes. Exposure without protection in training environment is acceptable.

SKIN PROTECTION: Gloves suggested (not required)

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not required

WORK HYGIENIC PRACTICES: Normal

EXPOSURE GUIDELINES: Avoid contact with liquid or spray. Avoid accidental contact with eyes, shin or mucous membranes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Yellow liquid

ODOR: Pungent

PHYSICAL STATE: Liquid

PH AS SUPPLIED: No Data

PH (Other): No Data

BOILING POINT: 178 ° F (81° C)

MELTING POINT: -89.5° C

FREEZING POINT:

F: -127.3 °

C: -88.5 °

VAPOR PRESSURE (mmHg): Not greater than 40 mm hg @ C: 20 °

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

VAPOR DENSITY (AIR = 1): 1.59 Greater

SPECIFIC GRAVITY (H₂O = 1): .79

EVAPORATION RATE: BASIS (=1): 2.88

SOLUBILITY IN WATER: Insoluble

PERCENT SOLIDS BY WEIGHT: Approx 95%

PERCENT VOLATILE: Approx 95%

VOLATILE ORGANIC COMPOUNDS (VOC): Approx 64%

MOLECULAR WEIGHT: No Data

VISCOSITY: No Data

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): Storage in direct sunlight or over 120 ° F, Heat, Sparks, Flame.

INCOMPATIBILITY (MATERIAL TO AVOID): None

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: No Data

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): No Data

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Skin – Dermal Irritation Rabbit EPA 560/6-82-001

Eye – Eye Irritation Rabbit EPA 560/6-82-001

Acute Inhalation Test (1 Hr)

Mildly Irritating

Mildly Irritating

>56.2 mg/L

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No Data

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Consult Federal, State and Local regulations

Evacuate container in safe area and dispose of container

RCRA HAZARD CLASS: No Data

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SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Consumer Commodity
HAZARD CLASS: ORM - D
ID NUMBER: None
PACKING GROUP: None
LABEL STATEMENT: None

WATER TRANSPORTATION

PROPER SHIPPING NAME: Aerosol Flammable
HAZARD CLASS: 2.1
ID NUMBER: UN 1950
PACKING GROUP: None
LABEL STATEMENTS: Class 2

AIR TRANSPORTATION

PROPER SHIPPING NAME: Consumer Commodity
HAZARD CLASS: ORM-D AIR
ID NUMBER: ID 8000
PACKING GROUP: None
LABEL STATEMENTS: Class 9 Misc

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): This product in compliance with US Toxic Substances Control act (TSCA) Inventory requirements.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): No Data

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): No Data

311/312 HAZARD CATEGORIES: No Data

313 REPORTABLE INGREDIENTS: No Data

STATE REGULATIONS: No Data

INTERNATIONAL REGULATIONS: No Data

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

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