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Capsaicin MSDS

Date Prepared: August 20th, 2013

Date Revised:

1. Identification of the Substance of the Company

Substance: Capsaicin
CAS No.: 404-86-4

TSCA 8(b) inventory: Capsaicin, Natural

Chemical Name: 6-Nonenamide, (*E*)-*N*-[(4-Hydroxy-3-methoxy-phenyl)methyl]-8-methyl.

(E)-8-Methyl-N-vanillyl-6-nonenamideeth.

Supplier: RD Health Ingredients Co., Ltd

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2. Composition

Substance: Natural Capsaicin

Content: 99%

3. Hazard Identification

Potential Acute Health

Effects:

Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Hazardous in case of skin contact (permeator), of inhalation. Severe over-exposure can result in death. Inflammation of the eye is characterize by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or occasionally

blistering.

Potential Chronic Health

Effects:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Mutagenic for bacteria.

TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.

The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many

human organs.

4. First Aid Measures

Eye Contact: Check for and remove any contact lenses. Immediately flush eyes with running water for a

least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye

ointment. Seek medical attention immediately.

Skin Contact: After contact with skin, wash immediately with plenty of water. Gently and thoroughly

wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before

reusing.

Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial

cream. Seek immediate medical attention.

Inhalation: Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.



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Evacuate the victim to rest in a well-ventilated area. Seek immediate medical attention. Serious Inhalation:

Evacuate the victim to a safe are as soon as possible. Loosen tight clothing such as collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are Ingestion:

damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek

immediate medical attention.

Not Available. Serious Ingestion:

5. Fire Fighting Measures

Flammability of the Product: May be combustible at high temperature.

Not available. Auto-Ignition Temperature: Not available. Flash Points: Not available.

Products of Combustion:

Fire Hazards in Presence of

Various Substances:

Explosion Hazards in

Flammable Limits:

Presence of Various Substances:

Fire Fighting Media and

Instructions:

Not available.

Risks of explosion of the product in presence of mechanical impact: Not available. Risks

of explosion of the product in presence of static discharge: Not Available.

There products are carbon oxides (CO, CO2), nitrogen oxides (NO. NO2 ...)

SMALL FIRE: Use FRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.

6. Accidental Release Measures

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Small Spill:

Use a shovel to put the material into a convenient waste disposal container. Large Spill:

7. Handling and Storage

Keep locked up. Keep away from heat. Keep away from sources of ignition. Empty Precautions:

> containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment if ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool well-ventilated place. Highly toxic or infectious

materials should be stored in a separate locked safety storage cabinet or room.

8. Exposure Controls

Storage:

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep

> airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the

exposure limit.

Personal Protection: Splash goggles, lab coat, dust respirator, gloves. Be sure to sue an approved/ certified

respirator or equivalent.

Personal Protection in Case of a Large Spill:

Splash goggles, full suit, dust respirator, boots and gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective

clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.



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9. Physical and Chemical Properties

Viscous Solid **Physical State and Appearance:**

Pungent odor Odor:

Burning sensation Taste:

305.41g/mole Molecular weight:

White to light yellow powder or crystal Color:

Not applicable pH (1% solution/ water): **210**°C (410°F) **Boiling Point: 65**℃ (**149**℉) **Melting Point:**

Not available. **Critical Temperature:** Not available. **Specific Gravity:** Not available. Vapor Pressure: Not available. Vapor Density: Not available. Volatility: Not available. **Odor Threshold:**

Capsaicin is more soluble in oil. Water/ Oil Dist. Coeff.:

Not available. Ionicity (in water):

Insoluble in water. **Dispersion Properties:**

Easily soluble in methanol, ethanol, diethyl ether. Insoluble in cold water. Solubility:

10. Stability and Reactivity

The product is stable. Stability:

Not available. **Instability Temperature:**

Conditions of Instability:

Incompatibility with Various Reactive with oxidizing agents.

Substances:

Non-corrosive in presence of glass Corrosivity:

Not available. Special Remarks on Re-activity: Not available. Special Remarks on Corrosivity:

No. Polymerization:

11. Toxicology Information

Inhalation, ingestion. Routes of Entry:

Acute oral toxicity (LD50): 148.1 and 161.2mg/Kg (female and male rat, **Toxicity of Animals:**

respectively); Acute dermal toxicity (LD50): 512mg/Kg (Mouse).

Excess heat, dust generation, incompatible materials.

The substance is toxic to lungs, mucous membranes. **Chronic Effect on Human:**

Other Toxic Effects on Humans: Very hazardous in case of skin contact (irritant), of ingestion. Hazardous in case of

skin contact (permeator), of inhalation.

Special Remarks on Toxicity

to Animals:

Not available.

Special Remarks

on Chronic Effects on Humans:

Not available.

Special Remarks on other **Toxic Effects on Humans:**

Not available.



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12. Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short-term degradation products are not likely. However,

long-term degradation products may arise.

Toxicity of the Products of

Biodegradation:

The products of degradation are more toxic.

Special Remarks on the

Products of Biodegradation:

Not available

13. Disposal Consideration

Disposal Methods: Refer to the local waste management authority and their rules.

14. Transport Information

DOT Classification: CLASS 6.1: Poisonous material

Identification: Toxic solid, organic, n.o.s (capsaicin): UN2811 PG:III

Special Provisions for

Transportation

Not available.

15. Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Capsaicin, Natural

Other Regulations: Hazardous by definition of Hazard Communication Standard

OSHA: (29CFR1910.1200)

Other Classifications:

WHMIS (Canada): CLASS D-18: Material causing immediate and serious toxic effect (TOXIC).

CLASS D-28: Material causing other toxic effects (TOXIC).

DSCL(EEC): R38-Irritation to skin

R41- Risk of serious damage to eyes.

HMIS (U.S.A) Health Hazard: 3

Fire Hazard: 1 Reactivity: 0

Personal Protection: E

National Fire Protection

Association (U.S.A): Flammability: 1

Reactivity: 0

Health:3

Specific hazard: Not available.

Protective Equipment: Gloves, lab coat, dust respiration, splash goggles. Be sure to use an

approved/certified respirator or equivalent. Wear appropriate respirator when

ventilation is inadequate.

16. Other Information

DISCLAIMER: Every effort has been made to ensure that this information is accurate and up to date. Users are reminded that they should ensure that they have retained or internally circulated the most up to date copy as provided to the persons or work locations that require them. No warranty is implied or given as to suitability for use for any activity that is not covered by either the technical data sheet or restrictions of use as above.