

# MATERIAL SAFETY DATA SHEET: POWER PEEL ORANGE AEROSOL

## Section I - General Information

(000000-000000- - 5001)

**Date of Issue:**

10/30/2002 12:00:00 AM

**Supersedes:**

4/3/1998 12:00:00 AM

**Chemical Name & Synonyms:**

N/A

**Trade Name & Synonyms:**

POWER PEEL ORANGE AEROSOL

**Chemical Family:**

TERPENE/SURFACTANT MIXTURE

Formula is a mixture: []

**Manufacturer Name:**

CHEMSEARCH DIV. OF NCH CORP.

**Manufacturer Address:**

BOX 152170  
IRVING, TX 75015

**Prepared By:**

C Williamson/Chemist

**Product Code Number:**

5001

**Emergency Phone Number:**

800-424-9300

## Section II - Hazardous Ingredients

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

<u>Chemical Name (Ingredients)</u>	<u>Hazard</u>	<u>TLV</u>	<u>PEL</u>	<u>STEL</u>	<u>CAS #</u>
D-LIMONENE	COMB/IRR	N/E 1	N/E 2	N/E	5989-27-5
NONYL PHENOL POLYETHYLENE GLYCOL ETHER	IRRITANT	N/E 1	N/E 2	N/E	127087-87-0
OCTYLPHENOXPOLYETHOXYETHANOL	IRRITANT	N/E 1	N/E 2	N/E	9036-19-5
PROPANE	FLAM/ASPHY	2500 PPM 1	1000 PPM 2	N/E	74-98-6
ISOBUTANE	FLAM/IRR	800 PPM 1	N/E 2	N/E	75-28-5

## Section III - Physical Data

<b>Boiling Point (°F):</b> 375°F	<b>Specific Gravity (H<sub>2</sub>O=1):</b> 0.87
<b>Vapor Pressure (mm Hg):</b> 1.03	<b>Color:</b> BLUE-GREEN
<b>Vapor Density (Air=1):</b> 4.3	<b>Odor:</b> ORANGE
<b>pH @ 100%:</b> N/A	<b>Clarity:</b> OPAQUE
<b>% Volatile by Volume:</b> 91	<b>Evaporation Rate (BuAc=1):</b> 0.09
<b>H<sub>2</sub>O Solubility:</b> APPRECIABLE	<b>Viscosity:</b> VISCOUS

## Section IV - Fire and Explosion Hazard

**Flash Point:** 116°F  
**Flammable Limits:** D-LIMONENE/PROPANE-BUTANE  
LEL: 0.7%

**Method Used:** T.C.C.  
**UEL:** 9.5%  
**Aerosol Level (NFPA 30B):** 3

**Extinguishing Media:**

<input checked="" type="checkbox"/> Foam	<input type="checkbox"/> Alcohol Foam	<input checked="" type="checkbox"/> CO <sub>2</sub>
<input checked="" type="checkbox"/> Dry Chemical	<input checked="" type="checkbox"/> Water Spray	<input type="checkbox"/> Other

**NFPA 704 Hazard Rating:**

4-Extreme	Health: 2
3-High	Flammability: 4
2-Moderate	Instability: 0
1-Slight	Special:
0-Insignificant	

**Special Fire Fighting Procedures:**

FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY TO PREVENT BURSTING.

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## Unusual Fire and Explosion Hazards:

FLAME EXTENSION IS >36 INCHES, BURNBACK IS 6 INCHES. USE CARE AS SPILLS MAY BE SLIPPERY. THE USE OF WATER SPRAY (FOG) WHILE EFFECTIVE, MAY CAUSE FROTHING AND FOAMING. NEVER USE A WATER JET AS THIS WILL JUST SPREAD THE FIRE. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO DISTANT SOURCES OF IGNITION AND FLASHBACK.

## Section V - Health and Hazard Data

### Threshold Limit Value:

NOT ESTABLISHED FOR MIXTURE.

### Effects of Overexposure:

#### Acute: (Short Term Exposure)

EYE CONTACT: CAUSES SEVERE IRRITATION SEEN AS TEARING, REDNESS, PAIN, EXCESSIVE BLINKING, SWELLING OF THE CONJUNCTIVA AND BURNING SENSATION. PROLONGED CONTACT MAY CAUSE BURNS, CORNEAL INJURY OR VISUAL IMPAIRMENT. SKIN CONTACT: CAUSES IRRITATION SEEN AS ITCHING AND REDNESS. REPEATED OR PROLONGED CONTACT MAY CAUSE DERMATITIS AND MAY ALLOW ABSORPTION OF POTENTIALLY HARMFUL AMOUNTS THROUGH THE SKIN. MAY CAUSE AN ALLERGIC SKIN REACTION. INHALATION: MAY CAUSE IRRITATION WITH COUGHING AND SNEEZING, NAUSEA, NASAL DISCHARGE OR CHEST PAIN. INHALATION OF HIGH CONCENTRATIONS OF VAPOR CAUSES DIZZINESS, DISORIENTATION, HEADACHE, EXCITATION, CENTRAL NERVOUS SYSTEM DEPRESSION OR ANESTHESIA AND MAY BE FATAL. MAY CAUSE ALLERGIC RESPIRATORY REACTION. INGESTION: MAY CAUSE IRRITATION WITH POSSIBLE NAUSEA, VOMITING AND DIARRHEA.

#### Chronic: (Long Term Exposure)

MAY CAUSE SKIN OR RESPIRATORY SENSITIZATION IN SOME INDIVIDUALS. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA AND DERMATITIS. TARGET ORGANS: BLOOD-FORMING ORGANS AND LUNGS.

### Primary Routes of Entry

Inhalation       Ingestion       Absorption

### Emergency First Aid Procedures:

#### Inhalation:

REMOVE FROM THE AREA TO FRESH AIR. SEEK MEDICAL ATTENTION IF RESPIRATORY IRRITATION DEVELOPS OR IF BREATHING BECOMES DIFFICULT.

#### Eye Contact:

IMMEDIATELY RINSE THE EYES WITH WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING FOR AT LEAST 15 MINUTES. HOLD THE EYELIDS APART TO ENSURE RINSING OF THE ENTIRE SURFACE OF THE EYES AND LIDS WITH WATER. GET IMMEDIATE MEDICAL ATTENTION.

#### Skin Contact:

WASH AFFECTED AREAS WITH LARGE AMOUNTS OF SOAP AND WATER FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS. WASH CLOTHING AND CLEAN SHOES BEFORE REUSE.

#### Ingestion:

GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. SEEK MEDICAL ATTENTION IF DISCOMFORT OCCURS.

#### Notes to Physician:

THERE IS NO SPECIFIC ANTIDOTE. TREAT THE PATIENT SYMPTOMATICALLY.

## Section VI - Toxicity Information

### Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

IARC       NTP       OSHA       ACGIH       Other

VOC CONTENT: 91.2% BY WEIGHT

#### D-LIMONENE

ORL-RAT LD50: >5 G/KG 4.

SKN-RBT LD50: >5 G/KG 4.

SKN-RBT: SEVERELY IRRITATING 4.

EYE-RBT: SEVERELY IRRITATING 4.

#### NONYL PHENOL POLYETHYLENE GLYCOL ETHER

ORL-RAT LD50: 1.3 G/KG 4.

SKN-RBT LD50: 2 ML/KG/24HR OCCLUDED 4.

SKN-RBT: NO IRRITATION (UNCOVERED) 4.

EYE-RBT: 0.5 ML @ 5% DILUTION (SEVERE CORNEAL INJURY) 4.

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CONTAINS SURFACTANT WHICH, BASED ON STUDIES WITH RABBITS INVOLVING THE SUSTAINED OCCLUDED CONTACT OF THE UNDILUTED SURFACTANT WITH SKIN, INDICATE THAT SUCH CONDITIONS MAY RESULT IN THE DEVELOPMENT OF INFLAMMATORY CHANGES IN THE LUNG. SEVERAL STUDIES HAVE RESULTED IN SLIGHTLY INCREASED KIDNEY WEIGHTS IN MALE RATS CONTINUOUSLY EXPOSED TO NONYLPHENOL AT DIETARY CONCENTRATIONS OF 200 PPM OR GREATER. TUBULAR DEGENERATION WAS OBSERVED AT 650 AND 2000 PPM. 4.

OCTYLPHENOXYPOLYETHOXYETHANOL  
EYE-RBT SDT: 1% SEVERE 3.  
SKN-MSE TDL<sub>0</sub>: 600 MG/KG/4W-1 3.  
ORL-RAT LD50: 4190 MG/KG 3.

PROPANE  
NO TOXICOLOGICAL DATA ARE AVAILABLE

N-BUTANE  
IHL-RAT LC50: 658 G/M3/4H 3.  
IHL-MUS LC50: 680 G/M3/4H 3.

PROPANE/N-BUTANE MIXTURE (SIMILAR MIXTURES)  
HUMAN VOLUNTEERS EXPOSED REPEATEDLY TO GASES OF SIMILAR HYDROCARON MIXTURES RANGING FROM 250 TO 1000 PPM EXHIBITED NO CARDIAC OR PULMONARY FUNCTION ABNORMALITIES. 4.

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## Section VII - Reactivity Data

<b>Stability</b> [ <input checked="" type="checkbox"/> ] Stable                      [ ] Unstable  <b>Conditions to Avoid:</b> AVOID HEAT, HOT SURFACES, SPARKS AND OPEN FLAMES.	<b>Hazardous Polymerization</b> [ <input checked="" type="checkbox"/> ] Will not occur                      [ ] May occur  <b>Conditions to Avoid:</b> N/A
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**Incompatibility (Materials to Avoid):**  
STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND CONCENTRATED HYDROGEN PEROXIDE; REDUCING AGENTS SUCH AS SODIUM THIOSULFATE; STRONG ACIDS AND BASES; CLAYS, ALUMINUM CHLORIDE, HALOGENS, IODINE PENTAFLUORIDE, VINYL CHLORIDE, HYDROXYL COMPOUNDS AND SOME PLASTICS AND RUBBERS.

**Hazardous Decomposition Products:**  
OXIDES OF CARBON.

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## Section VIII - Spill Or Leak Procedures

**Steps to be Taken if Material is Released or Spilled:**  
DUE TO THE NATURE OF THE AEROSOL PACKAGING, A LARGE SPILL IS UNLIKELY. FOR A SMALL SPILL, WEAR APPROPRIATE PROTECTIVE CLOTHING, VENTILATE THE AREA, ABSORB WITH AN INERT MATERIAL AND TRANSFER ALL MATERIAL INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. USE CARE AS SPILLS MAY BE SLIPPERY.

**Waste Disposal Method(s):**  
DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. TYPICAL DISPOSAL IS TO WRAP THE EMPTY AEROSOL CONTAINER IN SEVERAL LAYERS OF NEWSPAPER AND DISPOSE OF IN THE TRASH. AEROSOL RECYCLING PROGRAMS ARE AVAILABLE IN MANY AREAS. DO NOT PUNCTURE OR INCINERATE THIS CONTAINER.

**Neutralizing Agent:**  
NONE KNOWN.

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## Section IX - Special Protection Information

**Required Ventilation:**  
LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM OPERATIONS THAT CAN GENERATE EXCESSIVE LEVELS OF MISTS OR VAPORS. LOCAL VENTILATION IS PREFERRED, BECAUSE IT PREVENTS DISPERSION INTO WORK AREAS BY CONTROLLING IT AT ITS SOURCE.

**Respiratory Protection:**  
RESPIRATORS SHOULD BE SELECTED BY AND USED UNDER THE DIRECTION OF A TRAINED HEALTH AND SAFETY PROFESSIONAL FOLLOWING REQUIREMENTS FOUND IN OSHA'S RESPIRATOR STANDARD (29 CFR 1910.134) AND ANSI'S STANDARD FOR RESPIRATORY PROTECTION (Z88.2-1992). FOR CONCENTRATIONS ABOVE THE TLV AND/OR PEL BUT LESS THAN 10 TIMES THESE LIMITS, A NIOSH APPROVED HALF-FACEPIECE RESPIRATOR EQUIPPED WITH APPROPRIATE CHEMICAL CARTRIDGES MAY BE USED. FOR CONCENTRATIONS GREATER THAN 10 TIMES THE TLV AND/OR PEL, CONSULT THE NIOSH RESPIRATOR DECISION LOGIC FOUND IN PUBLICATION NO. 87-116 OR ANSI Z88.2-1992.

**Glove Protection:**  
NEOPRENE OR NITRILE RUBBER GLOVES SHOULD BE WORN.

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**Eye Protection:**

CHEMICAL GOGGLES SHOULD BE WORN WHEN HANDLING.

**Other Protection:**

WEAR PROTECTIVE CLOTHING WHEN HANDLING.

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## **Section X - Storage and Handling Information**

**Storage Temperature**

Max: 120°F      Min: 20°F

**Storage Conditions**

Indoors       Outdoors       Heated       Refrigerated

**Precautions to be Taken in Handling and Storing:**

CONTENTS UNDER PRESSURE. DO NOT USE OR STORE NEAR HEAT, HOT SURFACES, SPARKS OR OPEN FLAME. DO NOT PUNCTURE OR INCINERATE THIS CONTAINER. EXPOSURE TO TEMPERATURES ABOVE 120°F/49°C MAY CAUSE BURSTING. NOTE: VEHICLE INTERIORS OFTEN EXCEED 120°F/49°C DURING WARM MONTHS.

**Other Precautions:**

KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THIS PRODUCT. FOLLOW THE LABEL DIRECTIONS.

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## **Section XI - Regulatory Information**

**Chemical Name****CAS Number****Upper % Limit**

None.

Those Ingredients listed above are subject to the reporting requirements of 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Please call 1-800-527-9919 for additional information if you are a California customer. This MSDS is not intended for users in the state of California.

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## **Section XII - References**

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 2002. 2. OSHA PEL. 3. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFODisc, 2002. 4. VENDOR'S MSDS. ALL THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE TOXIC SUBSTANCES CONTROL ACT (TSCA) AND ARE EITHER LISTED ON THE TSCA INVENTORY OR OTHERWISE EXEMPTED FROM LISTING. IRR:IRRITANT, FLAM/FLAMM:FLAMMABLE, COMB:COMBUSTIBLE, CORR:CORROSIVE CARC:CARCINOGENIC, TOX:TOXIC, N/A:NOT APPLICABLE, N/E:NOT ESTABLISHED, COC:CLEVELAND OPEN CUP, PMCC:PENSKY-MARTIN CLOSED CUP, TCC:TAGLIABUE CLOSED CUP, LEL:LOWER EXPLOSION LIMIT, UEL:UPPER EXPLOSION LIMIT, NFPA:NATIONAL FIRE PROTECTION ASSOCIATION, IARC:INTERNATIONAL AGENCY FOR THE RESEARCH ON CANCER, NTP:NATIONAL TOXICOLOGY PROGRAM, OSHA:OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION, ACGIH:AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, TLV:THRESHOLD LIMIT VALUE, PEL:PERMISSIBLE EXPOSURE LIMIT, STEL:SHORT-TERM EXPOSURE LIMIT, MLD:MILD, MOD:MODERATE, SEV:SEVERE, MUT:MUTAGENIC, ASPHYX:ASPHYXIAN, PNOS:PARTICULATES (INSOLUBLE) NOT OTHERWISE SPECIFIED, SDT:STANDARD DRAIZE TEST, ORL:ORAL, IHL:INHALATION, HMN:HUMAN  
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