

# Material Safety Data Sheet: RESOLVE AEROSOL SAMPLE, NAC MM

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** RESOLVE AEROSOL SAMPLE, NAC MM  
**Recommended use** Lubricant  
**Information on Manufacturer**  
CERTIFIED LABS, DIV. OF NCH CORP.  
BOX 152170  
IRVING, TEXAS 75015

**Product Code** 5032  
**Chemical nature** Petroleum distillates  
**Emergency Telephone Number**  
CHEMTREC® 800-424-9300

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

DANGER

Extremely flammable  
May be harmful if inhaled  
May cause skin irritation  
May cause eye irritation  
May be harmful if swallowed  
Contents under pressure

**Color** White - Off-white

**Physical State** Liquid

**Odor** Odorless

**Potential Health Effects**

**Principle Route of Exposure**

Skin contact, Eye contact, Inhalation.

**Primary Routes of Entry**

Inhalation

**Acute Effects**

**Eyes**

May cause eye irritation.

**Skin**

May cause skin irritation.

**Inhalation**

May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

**Ingestion**

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Chronic Toxicity**

Chronic exposure damages the brain and the central nervous system. Prolonged or repeated inhalation may cause damage to the lungs. Prolonged skin contact may defat the skin and produce dermatitis.

**Target Organ Effects**

Respiratory system, Central nervous system, Heart.

**Aggravated Medical Conditions**

Respiratory disorders, Neurological disorders, Heart disease.

**Potential Environmental Effects**

See Section 12 for additional Ecological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
White mineral oil, solvent refined	8042-47-5
Petrolatum	8009-03-8
Calcium stearate	1592-23-0
Propane	74-98-6
Butane	106-97-8

## 4. FIRST AID MEASURES

**General advice**

Avoid breathing vapors, mist, or gas. Avoid contact with skin, eyes and clothing.

**Eye Contact**

Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.

**Skin Contact**

Wipe up with absorbent material (e.g. cloth, fleece). Wash off with soap and plenty of water. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.

**Inhalation**

If inhaled, remove to fresh air. Get medical attention if symptoms occur.

**Ingestion**

Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention if symptoms occur.

**Notes to physician**

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Flash Point** > 201 °F / > 94 °C

**Method**

Seta closed cup

**Autoignition Temperature** No information available.

**Upper** 9.5

**Lower** 1.9

**Flammability Limits in Air** % Propellant.

**Suitable Extinguishing Media**

Foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Specific hazards arising from the chemical**

Flame extension: >36 inches / >90 cm and Burnback: 0 inch / 0 cm. Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Aerosol Level (NFPA 30B) -

3

NFPA Health 1  
HMIS Health 1

Flammability 4  
Flammability 4

Instability 0  
Instability 0

**6. ACCIDENTAL RELEASE MEASURES****Personal Precautions**

Use personal protective equipment. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

**Environmental Precautions**

Do not flush into surface water or sanitary sewer system.

**Methods for Containment**

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13)

**Methods for Cleaning Up**

Use clean non-sparking tools to collect absorbed material.

**Neutralizing Agent**

Not applicable.

**7. HANDLING AND STORAGE****Handling**

Avoid breathing vapors, mist or gas. Avoid contact with skin, eyes and clothing.

**Storage**

Store in original container. Keep in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.

**Storage Temperature**

**Minimum** 35 °F / 2 °C

**Maximum** 120 °F / 49 °C

**Storage Conditions**

**Indoor** X **Outdoor**

**Heated** **Refrigerated**

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH
White mineral oil, solvent refined	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	IDLH 2500 mg/m <sup>3</sup> STEL 10 mg/m <sup>3</sup>
Petrolatum	5 mg/m <sup>3</sup> as oil mist	10 mg/m <sup>3</sup> as oil mist	No data available
Calcium stearate	TWA: 10 mg/m <sup>3</sup>	No data available	No data available
Propane	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup>	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup>
Butane	STEL: 1000 ppm	No data available	TWA: 800 ppm TWA: 1900 mg/m <sup>3</sup>

**Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

**Personal Protective Equipment****Eye/Face Protection**

Safety glasses with side-shields.

**Skin Protection**

For prolonged or repeated contact, use protective gloves with appropriate chemical resistance.

**Respiratory Protection**

In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**General Hygiene Considerations**

Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State</b>	Liquid	<b>Viscosity</b>	Viscous
<b>Color</b>	White - Off-white	<b>Odor</b>	Odorless
<b>Appearance</b>	No information available	<b>pH</b>	Not applicable
<b>Specific Gravity</b>	0.82	<b>Evaporation Rate</b>	24.2 (Butyl acetate=1)
<b>Percent Volatile (Volume)</b>	15.5	<b>VOC Content (%)</b>	9.9
<b>VOC Content (g/L)</b>	81	<b>Vapor Pressure</b>	2359 mmHg @ 70°F
<b>Vapor Density</b>	1.7 (Air = 1.0)	<b>Solubility</b>	Negligible
<b>Boiling Point/Range</b>	400 °F / 204 °C		

**10. STABILITY AND REACTIVITY**

<b>Chemical Stability</b>	Stable. Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	Heat, flames, and sparks
<b>Incompatible Products</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products</b>	Carbon oxides
<b>Possibility of Hazardous Reactions</b>	None under normal processing

## 11. TOXICOLOGICAL INFORMATION

Product Information No information available.

Component Information

### Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
White mineral oil, solvent refined	> 5000 mg/kg ( Rat )	no data available	no data available	no data available	no data available
Petrolatum	no data available	= 3600 mg/kg ( Rabbit )	no data available	no data available	no data available
Calcium stearate	no data available	no data available	no data available	no data available	no data available
Propane	no data available	no data available	= 658 mg/L ( Rat ) 4 h	no data available	no data available
Butane	no data available	no data available	= 658 g/m <sup>3</sup> ( Rat ) 4 h	no data available	no data available

### Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
White mineral oil, solvent refined	no data available	no data available	no data available	no data available	respiratory system
Petrolatum	no data available	no data available	no data available	no data available	no data available
Calcium stearate	no data available	no data available	no data available	no data available	no data available
Propane	no data available	no data available	no data available	no data available	CNS, heart
Butane	no data available	no data available	no data available	no data available	CNS, heart

### Carcinogenicity

There are no known carcinogenic chemicals in this product.

Component	ACGIH	IARC	NTP	OSHA	Other
White mineral oil, solvent refined	not applicable	not applicable	not applicable	not applicable	not applicable
Petrolatum	not applicable	not applicable	not applicable	not applicable	not applicable
Calcium stearate	not applicable	not applicable	not applicable	not applicable	not applicable
Propane	not applicable	not applicable	not applicable	not applicable	not applicable
Butane	not applicable	not applicable	not applicable	not applicable	not applicable

## 12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
White mineral oil, solvent refined	no data available	LC50 > 10000 mg/L Lepomis macrochirus 96 h	no data available	no data available	>6
Petrolatum	no data available	no data available	no data available	no data available	N/A
Calcium stearate	no data available	no data available	no data available	no data available	N/A
Propane	no data available	no data available	no data available	no data available	2.3
Butane	no data available	no data available	no data available	no data available	2.89

<b>Persistence and Degradability</b>	No information available.
<b>Bioaccumulation</b>	No information available.
<b>Mobility</b>	No information available.

## 13. DISPOSAL CONSIDERATIONS

<b>Product Disposal</b>	Dispose of in accordance with local regulations.
<b>Container Disposal</b>	Contents under pressure. Do not puncture. Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal.

## 14. TRANSPORT INFORMATION

DOT

<b>Proper Shipping Name</b>	Consumer Commodity
<b>Hazard Class</b>	ORM-D
<b>Description</b>	Consumer Commodity, ORM-D

## TDG

Proper shipping name Consumer Commodity  
 Hazard Class ORM-D  
 Description Consumer Commodity, ORM-D

## ICAO

UN-No UN1950  
 Proper Shipping Name Aerosols, flammable  
 Hazard Class 2.1  
 Shipping Description UN1950, Aerosols, flammable, 2.1, LTD QTY

## IATA

UN-No UN1950  
 Proper Shipping Name Aerosols, flammable  
 Hazard Class 2.1  
 ERG Code 10L  
 Shipping Description UN1950,Aerosols, flammable ,2.1, LTD QTY

## IMDG/IMO

Proper Shipping Name Aerosols, flammable  
 Hazard Class 2  
 UN-No UN1950  
 EmS No. F-D, S-U  
 Shipping Description UN1950, Aerosols, flammable,2.1, LTD QTY

## 15. REGULATORY INFORMATION

## Inventories

TSCA Complies  
 DSL Complies

## U.S. Federal Regulations

## SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40 of the Code of Federal Regulations, Part 372.

## SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	Yes	Yes	No

## CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
White mineral oil, solvent refined	Not applicable	Not applicable
Petrolatum	Not applicable	Not applicable
Calcium stearate	Not applicable	Not applicable
Propane	Not applicable	Not applicable
Butane	Not applicable	Not applicable

## Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

## WHMIS Hazard Class

A Compressed gases B5 Flammable aerosol D2B Toxic materials



## 16. OTHER INFORMATION

Prepared By Sarah Williamson  
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 Reason for Revision No information available.  
 Glossary No information available.  
 List of References. No information available.

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