Safety Data Sheet: NOTCH AEROSOL

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name NOTCH AEROSOL
Recommended use Lubricant
Product Code 5035
Chemical nature Hydrocarbons mixture
Information on Manufacturer MANTEK, DIVISION OF NCH CORP.
Emergency Telephone Number CHEMTREC® 800-424-9300
Box 152170
Irving, Texas 75015
Telephone inquiry 972-579-2477

2. HAZARD IDENTIFICATION

Color Yellow - Amber
Physical State Liquid
Odor Pleasant

GHS Classification
Physical Hazards
Flammable aerosols Category 2
Gases under pressure Compressed Gas

Health Hazard
Aspiration Toxicity Category 1
Acute Inhalation Toxicity - Gas Category 4
Serious Eye Damage/Eye Irritation Category 2B
Specific target organ systemic toxicity (single exposure) Category 3
Specific target organ systemic toxicity (repeated exposure) Category 2

Other hazards None

Labeling
Signal Word DANGER

Hazard Statements
H223 - Flammable aerosol
H332 - Harmful if inhaled
H36 - May cause drowsiness or dizziness
H320 - Causes eye irritation
H304 - May be fatal if swallowed and enters airways
H373 - May cause damage to organs through prolonged or repeated exposure
H280 - Contains gas under pressure; may explode if heated

Precautionary Statements
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from heat, sparks, open flames or hot surfaces.
P251 - Pressurized container: Do not pierce or burn, even after use
P260 - Do not breathe vapor, mist or gas
P271 - Use in a well-ventilated area.
P280 - Wear protective gloves, protective clothing and eye protection.
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P312 - Call a physician if unwell.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists, get medical attention.
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P440 - Protex from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
P501 - Dispose of contents and container in accordance with applicable regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic (&lt;3% DMSO</td>
<td>64742-52-5</td>
<td>60-100</td>
</tr>
</tbody>
</table>
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
Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.

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 immediately. Never give anything by mouth to an unconscious person.

Notes to physician
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point
> 201 °F / > 94 °C

Flammability Limits in Air % Propellant.
Upper 9.5 Lower 1.9

Suitable Extinguishing Media
Water spray. Carbon dioxide (CO2). Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical
Extremely flammable. Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions. Flame extension: 24 inches / 61 cm and Burnback: 6 inch / 15 cm.

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 Flammability 4 Instability 0
HMIS Health 1 Flammability 4 Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. 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. Pick up and transfer to properly labeled containers.

Neutralizing Agent
Not applicable.

7. HANDLING AND STORAGE

Handling
Keep away from open flames, hot surfaces and sources of ignition. Avoid breathing vapors, mist or gas. Avoid contact with skin, eyes and clothing.

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

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

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic (&lt;3% DMSO extractable)</td>
<td>TWA: 5 mg/m³, STEL: 10 mg/m³</td>
<td>TWA: 5 mg/m³</td>
<td>IDLH: 2,500 mg/m³; STEL 10 mg/m³; TWA: 5 mg/m³</td>
</tr>
<tr>
<td>Propane</td>
<td>TWA: 1000 ppm</td>
<td>TWA: 1000 ppm</td>
<td>TWA: 1800 mg/m³</td>
</tr>
<tr>
<td>Butane</td>
<td>STEL: 1000 ppm</td>
<td>No data available</td>
<td>TWA: 800 ppm</td>
</tr>
</tbody>
</table>

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
Wear suitable protective clothing, Impervious gloves.

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

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Yellow - Amber</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>1.3 (Butyl acetate=1)</td>
</tr>
<tr>
<td>VOC Content (%)</td>
<td>10.5</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>1731 mmHg @ 70°F</td>
</tr>
<tr>
<td>Solubility</td>
<td>Negligible</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>465 °F / 241 °C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 201 °F / &gt; 94 °C</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Flammability Limits in Air %</td>
<td>Propellant.</td>
</tr>
<tr>
<td>Upper 9.5 Lower 1.9</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Chemical Stability
Stable. Hazardous polymerization does not occur.

Conditions to Avoid
Keep away from open flames, hot surfaces, and sources of ignition.

Incompatible Products
Strong oxidizing agents

Hazardous Decomposition Products
Carbon oxides, Nitrogen oxides (NOx), Aldehydes, Ketones, Ammonia, Hydrogen sulfide, Hydrogen chloride gas.

Possibility of Hazardous Reactions
None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information
The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

| Oral LD50 | 5,059.19 |
| Dermal LD50 | 2,013.72 |
| Inhalation LC50 | |
| Gas | No information available |
| Mist | 5.65 |
| Vapor | 657.71 |

Principle Route of Exposure
Inhalation, Skin contact, Eye contact.

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 irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways. |

Chronic Toxicity
Liver and kidney injuries may occur. Prolonged or repeated inhalation may cause damage to the lungs. Prolonged skin contact may defat the skin and produce dermatitis.

Target Organ Effects
Central nervous system, Respiratory system, Liver, Kidney, Thyroid, Heart, Bone, Gastrointestinal tract.

Aggravated Medical Conditions
Neurological disorders, Respiratory disorders, Liver disorders, Kidney disorders.

Component Information

Acute Toxicity

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
<th>Draize Test</th>
<th>Other</th>
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<tbody>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic (&lt;3% DMSO extractable)</td>
<td>&gt; 5000 mg/kg ( Rat )</td>
<td>&gt; 5000 mg/kg ( Rabbit )</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
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<tr>
<td>Propane</td>
<td>no data available</td>
<td>no data available</td>
<td>= 658 mg/L ( Rat ) 4 h</td>
<td>no data available</td>
<td>no data available</td>
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<tr>
<td>Butane</td>
<td>no data available</td>
<td>no data available</td>
<td>= 658 g/m³ ( Rat ) 4 h</td>
<td>no data available</td>
<td>no data available</td>
</tr>
</tbody>
</table>
### Chronic Toxicity

<table>
<thead>
<tr>
<th>Component</th>
<th>Mutagenicity</th>
<th>Sensitization</th>
<th>Developmental Toxicity</th>
<th>Reproductive Toxicity</th>
<th>Target Organ Effects</th>
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</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic (&lt;3% DMSO extractable)</td>
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<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
<td>respiratory system</td>
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<tr>
<td>Butane</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
<td>CNS, heart</td>
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</tbody>
</table>

### Carcinogenicity

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
<th>Other</th>
</tr>
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<tbody>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic (&lt;3% DMSO extractable)</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
</tr>
<tr>
<td>Propane</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
</tr>
<tr>
<td>Butane</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

### 12. ECOLOGICAL INFORMATION

**Product Information**

- No information available.

**Component Information**

<table>
<thead>
<tr>
<th>Component</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Microtox</th>
<th>Water Flea</th>
<th>log Pow</th>
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<tbody>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic (&gt;3% DMSO extractable)</td>
<td>no data available</td>
<td>LC50 &gt; 5000 mg/L Oncorhynchus mykiss 96 h</td>
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<td>EC50 &gt; 1000 mg/L 48 h</td>
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<td>Propane</td>
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<td>no data available</td>
<td>no data available</td>
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<td>2.3</td>
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<td>Butane</td>
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<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
<td>2.89</td>
</tr>
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</table>

### 13. DISPOSAL CONSIDERATIONS

**Product Disposal**

- Dispose of in accordance with local regulations.

**Container Disposal**

- 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**

- **Proper Shipping Name**: Consumer commodity
- **Hazard Class**: ORM-D
- **Description**: Consumer commodity, ORM-D

**TDG**

- **Proper shipping name**: Aerosols
- **Hazard Class**: 2.1
- **UN-No**: UN1950

**ICAO**

- **UN-No**: UN1950
- **Proper Shipping Name**: Aerosols
- **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
- **Hazard Class**: 2.1
- **UN-No**: UN1950
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

<table>
<thead>
<tr>
<th>Acute Health Hazard</th>
<th>Chronic Health Hazard</th>
<th>Fire Hazard</th>
<th>Sudden Release of Pressure Hazard</th>
<th>Reactive Hazard</th>
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</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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</table>

CERCLA

<table>
<thead>
<tr>
<th>Component</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA EHS RQs</th>
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</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic (&lt;3% DMSO extractable)</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Propane</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Butane</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

Prepared By Sarah Williamson
Supercedes Date 12/05/2011
Issuing Date 10/01/2013
Reason for Revision No information available.
Glossary No information available.
List of References No information available.

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