

Safety Data Sheet: SHY-NEE

Supersedes Date 06/11/2012

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name SHY-NEE
Recommended use Cleaning agent
Information on Manufacturer
Partsmaster, Div of NCH Corp.
P.O. Box 655326
Dallas, TX 75265-5326

Product Code 5210
Chemical nature Aqueous solution
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color White - Straw

Physical State Liquid

Odor Ammoniacal

GHS

Classification

Physical Hazards

Flammable liquids
Gases under pressure

Category 3
Compressed Gas

Health Hazard

Acute Inhalation Toxicity - Gas
Specific target organ systemic toxicity (single exposure)
Specific target organ systemic toxicity (repeated exposure)

Category 4
Category 3
Category 2

Other hazards

None

Labeling

Signal Word

WARNING



Hazard Statements

H332 - Harmful if inhaled
H336 - May cause drowsiness or dizziness
H373 - May cause damage to organs through prolonged or repeated exposure
H280 - Contains gas under pressure; may explode if heated

Precautionary Statements

P210 - Keep away from heat, sparks, open flames or hot surfaces.
P280 - Wear protective gloves, protective clothing and eye protection.
P270 - Do not eat, drink or smoke when using this product
P271 - Use in a well-ventilated area.
P260 - Do not breathe vapor or mist
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P342 + P311 - If experiencing respiratory symptoms, call a physician
P410 + P403 - Protect from sunlight. Store in a well-ventilated place
P501 - Dispose of contents and container in accordance with applicable regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Component | CAS-No | Weight % |
|-------------------|----------|----------|
| Isopropyl alcohol | 67-63-0 | 3-7 |
| Butane | 106-97-8 | 1-5 |
| Propane | 74-98-6 | 1-5 |

4. FIRST AID MEASURES

General advice

Avoid breathing vapors or mists. 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 immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. 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 immediately. |
| Notes to physician | Treat symptomatically. |

5. FIRE-FIGHTING MEASURES

| | | | |
|--|-----------------|-----------------------|----------------------|
| Flash Point | 124 °F / 51 °C | Method | Seta closed cup |
| Flammability Limits in Air % Mixture. | | Upper | 12.7 |
| Suitable Extinguishing Media | | Lower | 1.9 |
| Water spray. Carbon dioxide (CO ₂). Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. | | | |
| Specific hazards arising from the chemical | | | |
| Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Flame extension: 0 inches / 0 cm and Burnback: 0 inch / 0 cm. 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) - | 1 | | |
| NFPA | Health 2 | Flammability 4 | Instability 0 |
| HMIS | Health 2 | 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 | Pick up and transfer to properly labeled containers. |
| Neutralizing Agent | Not applicable. |

7. HANDLING AND STORAGE

| | | | | |
|----------------------------|--|--------------|---------------------|----------------|
| Handling | Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. | | | |
| Storage | Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using. | | | |
| 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 |
|-------------------|-------------------------------|--|---|
| Isopropyl alcohol | TWA: 200 ppm STEL: 400 ppm | TWA: 400 ppm TWA: 980 mg/m ³ | IDLH: 2000 ppm STEL 500 ppm STEL 1225 mg/m ³ TWA: 400 ppm TWA: 980 mg/m ³ |
| Butane | STEL: 1000 ppm | No data available | TWA: 800 ppm TWA: 1900 mg/m ³ |
| Propane | TWA: 1000 ppm | TWA: 1000 ppm TWA: 1800 mg/m ³ | IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m ³ |

| | |
|---------------------------------------|--|
| 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

| | | | |
|-------------------------------------|---------------------------|----------------------------------|-------------------|
| Physical State | Liquid | Viscosity | Non viscous |
| Color | White - Straw | Odor | Ammoniacal |
| Odor Threshold | Not applicable | Appearance | Transparent |
| pH | 11 | Specific Gravity | 0.96 |
| Evaporation Rate | 6.57 (Butyl acetate=1) | Percent Volatile (Volume) | 99.8 |
| VOC Content (%) | 9.9 | VOC Content (g/L) | 95 |
| Vapor Pressure | 57.3 mmHg @ 70°F | Vapor Density | 1.4 (Air = 1.0) |
| Solubility | Completely soluble | n-Octanol/Water Partition | No data available |
| Melting Point/Range | No data available | Decomposition Temperature | No data available |
| Boiling Point/Range | > 198 °F / 92 °C | Flammability (solid, gas) | No data available |
| Flash Point | 124 °F / 51 °C | Method | Seta closed cup |
| Autoignition Temperature | No information available. | | |
| Flammability Limits in Air % | Mixture. | Upper 12.7 Lower 1.9 | |

10. STABILITY AND REACTIVITY

| | |
|---|---|
| Chemical Stability | Stable. Hazardous polymerization does not occur. |
| Conditions to Avoid | None known |
| Incompatible Products | Strong oxidizing agents, Strong bases, Amines, Aldehydes. |
| Hazardous Decomposition Products | Carbon oxides, Nitrogen oxides (NOx). |
| 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 | 91,755.37 |
| Dermal LD50 | 267,167.61 |
| Inhalation LC50 | |
| Gas | 1,386.94 |
| Mist | No information available |
| Vapor | 1,386.94 |

| | |
|--------------------------------------|--|
| Principle Route of Exposure | Skin contact, Eye contact, Inhalation. |
| Primary Routes of Entry | Inhalation |
| Acute Effects | |
| Eyes | Causes eye irritation. |
| Skin | Causes 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. Lowered blood pressure. |
| Chronic Toxicity | Liver and kidney injuries may occur. |
| Target Organ Effects | Central nervous system, Respiratory system, Liver, Kidney, Skin, Eyes, Heart. |
| Aggravated Medical Conditions | Neurological disorders, Respiratory disorders, Kidney disorders, Skin disorders, Heart disease. |

Component Information

Acute Toxicity

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation | Draize Test | Other |
|-------------------|----------------------|--------------------------|------------------------------------|-------------------|-------------------|
| Isopropyl alcohol | = 4396 mg/kg (Rat) | = 12800 mg/kg (Rabbit) | = 16000 ppm (Rat) 8 h | no data available | no data available |
| Butane | no data available | no data available | = 658 g/m ³ (Rat) 4 h | 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 |

Chronic Toxicity

| Component | Mutagenicity | Sensitization | Developmental Toxicity | Reproductive Toxicity | Target Organ Effects |
|-------------------|-------------------|-------------------|------------------------|-----------------------|--|
| Isopropyl alcohol | no data available | no data available | no data available | no data available | eyes, respiratory system, skin, liver, kidney, CNS |
| Butane | no data available | no data available | no data available | no data available | CNS, heart |
| Propane | no data available | no data available | no data available | no data available | CNS, heart |

Carcinogenicity

| Component | ACGIH | IARC | NTP | OSHA | Other |
|-------------------|----------------|----------------|----------------|----------------|----------------|
| Isopropyl alcohol | not applicable | not applicable | not applicable | not applicable | not applicable |
| Butane | not applicable | not applicable | not applicable | not applicable | not applicable |

| | | | | | |
|---------|----------------|----------------|----------------|----------------|----------------|
| Propane | 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 |
|-------------------|--|--|-------------------------|-----------------------|---------|
| Isopropyl alcohol | EC50 > 1000 mg/L Desmodesmus subspicatus 96 h EC50 > 1000 mg/L Desmodesmus subspicatus 72 h | LC50 = 9640 mg/L Pimephales promelas 96 h LC50 = 11130 mg/L Pimephales promelas 96 h LC50 > 1400000 µg/L Lepomis macrochirus 96 h | EC50 = 35390 mg/L 5 min | EC50= 13299 mg/L 48 h | 0.05 |
| Butane | no data available | no data available | no data available | no data available | 2.89 |
| Propane | no data available | no data available | no data available | no data available | 2.3 |

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

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

Hazard Class 2.2
UN-No UN1950

ICAO

UN-No UN1950
Proper Shipping Name AEROSOLS
Hazard Class 2.2
Shipping Description AEROSOLS,2.2,UN1950, LTD QTY

IATA

UN-No UN1950
Proper Shipping Name AEROSOLS
Hazard Class 2.2
ERG Code 2L
Shipping Description AEROSOLS,2.2,UN1950, LTD QTY

IMDG/IMO

Proper Shipping Name AEROSOLS
Hazard Class 2.2
UN-No UN1950
EmS No. F-D, S-U
Shipping Description UN1950, Aerosols,2.2, 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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Component | CAS-No | Weight % | SARA 313 - Threshold Values |
|-------------------|---------|----------|-----------------------------|
| Isopropyl alcohol | 67-63-0 | 3-7 | 1.0 |

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 |
|-------------------|--------------------------|----------------|
| Isopropyl alcohol | Not applicable | Not applicable |
| Butane | Not applicable | Not applicable |
| Propane | Not applicable | Not applicable |

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|-----------------------|
| 16. OTHER INFORMATION |
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|----------------------------|---------------------------|
| Prepared By | Angela Hutson |
| Supersedes Date | 06/11/2012 |
| Issuing Date | 09/03/2013 |
| Reason for Revision | No information available. |
| Glossary | No information available. |
| List of References. | No information available. |

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