MATERIAL SAFETY DATA SHEET (MSDS)

000560

ITEM NUMBER: 066 - # 66 SPRAY ADHESIVE 14 OZ.

IDENTITY (As Used On Label and List) NASCO SPRAY ADHESIVE 140Z

EMERGENCY MEDICAL TELEPHONE NUMBER

(24 HRS)

Section 1

NASCO 901 JANESVILLE AVENUE FORT ATKINSON

TELEPHONE NUMBER FOR INFORMATION:

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WI, 53538

DATE PREPARED: 07/12/88

NAME OF PREPARER: T. O. Vyfhuis

Section II - Hazardous Ingredients/Identity Information

Hazardous Components(Chemical Identity-Common Name)

TLV Other Limits Recommended

% Ont.

1,1,1-Trichloroethane (CAS #71-55-6) LPG Propellant (CAS #68476-85-7)

350ppm 350ppm 1000ppm 1000ppm

PEL

25-35

Non-hazardous Ingredients*

1000ppm 1000ppm NA NA

25-35

*Unidentified ingredients are not considered hazardous under the Federal Hazard Communication Standard

Section III - Physical/Chemical Characteristics

Boiling Point: Liquid 165F.

Specific Gravity(H20=1): 0.93

Vapor Pressure(psig): 90 @ 130F

Solubility in Water: Negligible

Vapor Density(AIR = I): >1

Melting Point: NA

Evaporation Rate(Butyl Acetate = 1): <1

Appearance and Odor: Misty spray, chlorinated solvent odor. Quick-dries to a tacky film.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used): None (TCC)

Flammable Limits - (Propellant) LEL: 1.8%

UEL: 9.2%

Extinguishing Media: Dry Chemical

Special Fire Fighting Procedures: Containers should be cooled with water to prevent vapor pressure build up. Use equipment or shielding, as required, to protect personnel from bursting, rupturing or venting containers.

Unusual Fire and Explosion Hazards: Do not spray near open flame or while smoking. At elevated temperatures over (54C = 130F), containers may vent, rupture or burst.

081150

Section V - Reactivity Data

Stability -

Unstable:

Stable. X

Incompatibility (Materials to Avoid): Strong alkalies, oxidizers and reactive metals. Avoid contact with aluminum.

Hazardous Decomposition or Byproducts: Carbon monoxide, phosgene and other toxic chemicals in small amounts.

Hazardous

Polymerization -

May Occur:

Will Not Occur: X

Conditions to Avoid: Do not store aerosol containers above (49C - 120F). Keep away from heat, open flames or sparks. Dropping of containers could cause bursting.

Section VI - Health Hazard Data

Route(s) of Entry -

Inhalation: X

Skin:

Indgestion:

Health Hazards (Acute and Chronic):

Carcinogenicity -

NTP:

IARC Monographs:

OSHA Regulated:

Signs and Symptoms of Exposure: Inhalation is the primary route of exposure and may cause dizziness, drowsiness and throat irritation. Prolonged or repeated skin contact can cause irritation and defatting of skin. Eye contact may cause blurring and irritation. Ingestion can cause vomiting which may result in chemical pneumonia and systemic effects.

Chronic exposure to 1,1,1 Trichloroethane has caused liver toxic effects in experimental animals.

Medical Conditions Generally Aggravated by Exposure: Acute and chronic liver disease and rhythm disorders of the heart.

Emergency and First Aid Procedures: INHALATION: Move victim to source of fresh air. Call a physician. EYES: Flush eyes immediately with water for at least 15 minutes. If irritation occurs contact a physician. SKIN: Remove contaminated clothing. Wash skin with soap and water. Wash contaminated clothing before reuse. INGESTION: Do not induce vomiting. Contact a physician or emergency medical facility immediately.

Note to Physician: Adrenalin should never be given to persons overexposed to 1,1,1 Trichloroethane.

Section VII - Precautions for Safe Handling and Use

Steps To Be Taken In Case Material is Released or Spilled: Remove all sources of ignition and ventilate area. Soak up spill with an inert absorbent and place into a designated disposal container. Consult local regulatory agency for proper disposition of material.

Waste Disposal Method: Do not puncture or incinerate containers. When contents are depleted continue to depress button until all gas is expelled. Dispose of container in accordance with local, state, and federal regulations.

Precautions To Be Taken In Handling And Storing: Avoid breathing vapor. Keep away from heat and flame. Use with adequate ventilation. Do not puncture or incinerate containers.

Other Precautions: Please read and follow the directions on the product label; they are your best guide to using this product in the most effective way, and give the necessary safety precautions to protect your health.

Section VIII - Control Measures

Respiratory Protection (Type): Avoid breathing vapors. Where vapor concentration exceeds or is likely to exceed 350ppm, an approved organic type respirator is acceptable.

Ventilation -

. Local Exhaust: Should be used to provide adequate dilution.

Mechanical(General): Optional

Protective Gloves: Chemical resistant gloves.

Eye Protection: Safety glasses.

Other Protective Clothing or Equipment: Wear impervious clothing to prevent skin contact.

Work/Hygienic Practices: Ensure strict sanitary conditions are conformed to when working around chemicals. Protective clothing and equipment in accordance with 29 CFR 1910.132 and CFR 1910.133.

NA-Not Applicable

NE-Not Established

UN-Unavailable

ND-Not Determined

The information provided herein was believed to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the repsonsibilty of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of product and to determine the suitability of the product for its intended use.