

Material Safety Data Sheet

870-12-00

PRODUCT NAME: Bouquet Hold, Stem Adhesive

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER Syndicate Sales Inc.

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SECTION 2: INGREDIENTS

Ingredient

DIMETHYL ETHER

METHYL ACETATE

NONVOLATILE COMPONENTS - N.J. TRADE SECRET REGISTRY NO.

04499600-6448P

CYCLOHEXANE

PENTANE

1,1-DIFLUOROETHANE

METHYL ALCOHOL

C.A.S. No.

115-10-6

79-20-9

Trade Secret

110-82-7

109-66-0

75-37-6

67-56-1

SECTION 3: HAZARD IDENTIFICATIONS

SECTION 3.1 EMERGENCY OVERVIEW

Specific Physical Form: Aerosol

Odor, Color, Grade: clear, sweet fruity odor

General Physical Form: Gas

Immediate health, physical, and environmental hazards: Flammable liquefied gas.

May cause target organ effects.

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Skin Contact:

May be absorbed through skin and cause target organ effects.

Prolonged or repeated exposure may cause:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, and itching.

Inhalation:

Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May be absorbed following inhalation and cause target organ effects.

Indigestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhea and vomiting,

May be absorbed following ingestion and cause target organ effects.

Target Organ Effects: I

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, in coordination, Flau~ea,

Slowed reaction time, slurred speech, giddiness, and unconsciousness. :

Prolonged or repeated exposure, above recommended guide lines, may cause: :

Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Kidney Effects: Sign/Symptoms may include reduced or absent urine production, increased serum creatinine, lower back pain, increased protein in urine, and increased blood urea nitrogen (BUN).

SECTION 4: FIRST AID MEASURES

4.1. FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed. :

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Skin Contact: Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

Inhalation: Remove person to fresh air. If signs/ symptoms develop, get medical attention.

If Swallowed: Do not induce vomiting. Give victim two glasses of water. Never give anything by mouth to an unconscious person.

Get immediate medical attention.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Auto ignition temperature

Flash Point

Flammable Limits. LEI..

Flammable Limits - VEL

OSHA Flammability Classification:

No Data Available

.42.00 OF[*Teyt Method: Tagliabu~ Closed Cup*]

No Data Available

No Data Available

Class JA Flammable Liquid

5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face *mask*, and protective covering for exposed areas of the head.

Unusual Fire and Explosion Hazards: Flammable liquefied gas.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information. :

Accidental Release Measures: Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-spill tools. Ventilate the area with fresh air. If possible, seal leaking container. Place leaking containers in a well ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Close cylinder. If the cylinder can't be closed, place in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors. Dispose of collected material as soon as possible. Discharge the resulting residue containing solution to a municipal or industrial water treatment facility

In the event of a release of this material the user should determine if the release qualifies as reportable according to local, state, and federal regulations. I

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Ventilate the area with fresh air. If possible, seal leaking container. Place leaking containers preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Close cylinder. If the cylinder can't be closed, place in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors. Dispose of collected material as soon as possible. Discharge the resulting residue containing solution to a municipal or industrial wastewater treatment facility.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

Avoid eye contact with vapors, mists, or spray. Avoid prolonged or repeated skin contact. Do not eat, drink or smoke when using this product. Wash exposed area thoroughly with soap and water. Keep away from heat, sparks, open flame, pilot lights and direct sources of ignition. Keep out of the reach of children. :

7.2 STORAGE

Store away from acids. Store away from heat. Store out of direct sunlight.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation. Do not use in a confined area or areas with little or no air movement. Use ~eneT91 dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapor, or spray. If ventilation is not adequate respiratory protection equipment.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/ Face Protection

Avoid eye contact with vapors, mists, or spray. Avoid eye contact
The following eye protection(s) are recommended: Safety Glasses with side shields.

8.2.2 Skin Protection

Avoid prolonged or repeated skin contact. Gloves not normally required. Avoid skin contact.

8.2.3 Respiratory Protection

Consult the current 3M Respirator Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

Avoid breathing of vapors, mists or spray.

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in fl. Coordination with OSHA regulations: Half face piece or full face air-purifying respirator with organic vapor cartridges. Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance. i

8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

8.3 EXPOSURE GUIDELINES

<u>Ingredient</u>	<u>Authority</u>	<u>Type</u>	<u>Limit</u>	<u>Additional Info</u>
1,1-DIFLUOROETHANE	AIHA	TWA	1000 ppm	
1,1-DIFLUOROETHANE	CMRG	TWA	1000 ppm	
CYCLOHEXANE	ACGIH	TWA	100 ppm	
CYCLOHEXANE	OSHA	TWA	300 ppm	Table Z-1
DIMETHYL ETHER	AIHA	TWA	1000 ppm	
DIMETHYL ETHER	CMRG	TWA	1000 ppm	
METHYL ACETATE	ACGIH	TWA	200 ppm	
METHYL ACETATE	ACGIH	STEL	250 ppm	
METHYL ACETATE	OSHA	TWA	200 ppm	Table Z-1A
METHYL ACETATE	OSHA	STEL	250 ppm	Table Z-1A
METHYL ALCOHOL	ACGIH	TWA	200 ppm	Skin Notation*
METHYL ALCOHOL	ACGIH	STEL	250 ppm	Skin Notation*
METHYL ALCOHOL	OSHA	TWA	200 ppm	Skin Notation*: Table Z-1A
METHYL ALCOHOL	OSHA	STEL	250 ppm	Skin Notation*: Table Z-1A
PENTANE	ACGIH	TWA	600 ppm	
PENTANE	OSHA	TWA	600 ppm	
PENTANE		Vacated		
PENTANE	OSHA	STEL, Vacated	750 ppm	
PENTANE	OSHA	TWA	1000 ppm	Table Z-1

* Substance(s) refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can aid skin absorption.

VAC Vacated PEL/Vacated Permissible Exposure Limits (PEL) are enforced as the OSHA PEL in some states. Check with regulatory agency.

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline

OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific Physical Form:	Aerosol
Odor, Color, Grade:	clear, sweet fruity odor
General Physical Form:	Gas
Autoignition temperature	<i>No Data Available</i>
Flash Point	-42.00 °F [Test Method: Tagliabue Closed Cup]
Flammable Limits - LEL	<i>No Data Available</i>
Flammable Limits - UEL	<i>No Data Available</i>
Boiling point	<i>Not Applicable</i>
Vapor Density	2.97 [Ref Std: AIR=1]
Specific Gravity	0.726 [Ref Std: WATER=1]
pH	<i>No Data Available</i>
Melting point	<i>Not Applicable</i>
Solubility in Water	NH
Evaporation rate	1.90 [Ref Std: ETHER=1]
Hazardous Air Pollutants	<=4 % weight [Test Method: Calculated]
Volatile Organic Compounds	Approximately 54 % [Test Method: calculated SCAQMD rule 443.1]
Percent volatile	<=75 % weight
Viscosity	<i>Not Applicable</i>

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable

Materials and Conditions to Avoid: Heat

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Irritant Vapors or Gases	During Combustion

SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not determined.

CHEMICAL FATE INFORMATION

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Incinerate in a permitted hazardous waste incinerator. The facility should be equipped to handle gaseous waste.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14: TRANSPORT INFORMATION

ID Number(s):

62-4942-2910- 7

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

SECTION 15: FEDERAL REGULATIONS

311/312 Hazard Categories: :

Fire Hazard - Yes Pressure - Hazard - Yes Reactivity Hazard - No Immediate Hazard - Yes

Delayed Hazard - Yes

Section 313 Toxic Chemical: Subject to the reporting requirements of that section 40 CFR part 372 (EPCRA): :

311/312 Hazard Categories:

Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard -

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA): :

<u>Ingredient</u>	<u>C.A.S. No</u>	<u>% by Wt</u>
CYCLOHEXANE	110-82-7	7 - 13

This material contains a chemical which requires export notification under TSCA Section 12(b):

<u>Ingredient (Category II applicable)</u>	<u>C.A.S. No</u>	<u>Regulation</u>	<u>S</u>
CYCLOHEXANE	110-82-7	Toxic Substances Control Act (TSCA) 4 Test Rule Chemicals	A

CHEMICAL INVENTORIES

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS.

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact Syndicate Sales Inc. for more information.

MATERIAL SAFETY DATA SHEET

Contact Syndicate Sales Inc. for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication
S1::wdnrd~29 CFR 1910.1200.[1]

SECTION 16: OTHER INFORMATION

NEPA Hazard Classification

Health: 2 Flammability: 4 Reactivity: 0 Special Hazards: None

Aerosol Storage Code: 3

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to present by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition generated in significant quantities.

Revision Changes:

Section 1: Division name was modified.

Copyright was modified.

Section 6: Release measures information was modified.

Section 13: Waste disposal method information was modified.

Section 15: TSCA section 12[b] text was modified.

Section 16: NEPA explanation was modified.

Section 8: Exposure guidelines ingredient information was modified.

Section 12: Ecotoxicological phrase was added.

Section 12: Chemical Fate phrase was added.

Section 12: Ecotoxicological ecotox article information was deleted.

Section 12: Ecotoxicological ecofate information was deleted.

DISCLAIMER: The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued.

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