



MATERIAL SAFETY DATA SHEET **DYQWJ**

SECTION 1: CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Product Name: Sprayidea 97 Heavy Duty Headliner Spray Adhesive

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Manufacturer: Dongguan Dayang Chemical Science and Technology Co., Ltd.

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Product/Recommended Uses: Spray Adhesive

SECTION 2: HAZARD IDENTIFICATION

Hazard Classification:

Flammable Aerosol: Category 1

Eye Irritation: Category 2A

Skin Irritation: Category 1

Specific Target Organ Toxicity (Single Exposure): Category 1

Specific Target Organ Toxicity (Repeated Exposure): Category 2

Signal Word:

Danger

Hazardous Statements:

Extremely flammable aerosol

Pictograms:



Hazardous Statements-Health:

Harmful if swallowed. May cause respiratory irritation. May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard). Causes skin irritation. Causes serious eye irritation

Precautionary Statements-General:

Keep out of reach of children.

Read label before use.

Precautionary Statements - Prevention:

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Keep container tightly closed.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not eat, drink or smoke when using this product.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Precautionary Statements-Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Get Medical advice/attention if you feel unwell.

IF ON SKIN: Wash with plenty of water/Specific treatment (see on this label).

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing. And wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF exposed or concerned: Get medical advice/attention.

IF SWALLOWED: Call a POISON CENTER/doctor/... if you feel unwell. Rinse mouth.

Precautionary Statements - Storage:

Store locked up in a well-ventilated place.

Keep container tightly closed.

Protect from sunlight.

Do not expose to temperatures exceeding 50 °C/122 °F.

Precautionary Statements - Disposal:

Dispose of contents/container to disposal recycling center. Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS. No.	% by Wt
Non-volatile Components	Trade Secret	18 - 23
3-Methylpentane	96-14-0	2 - 3
2-Methylpentane	107-83-5	5 - 10
Cyclohexane	110-82-7	5 - 10
Isobutane	75-28-5	1 - 3
Propane	74-98-6	3 - 5
Dimethyl Ether	115-10-6	35 - 45
Methyl Acetate	79-20-9	10 - 20

SECTION 4: FIRST AID MESURES

Inhalation:

Remove source of exposure or move person to fresh air and keep comfortable for

breathing. Call a POISON CENTER/doctor if you feel unwell.

If exposed/feel unwell/concerned: Call a POISON CENTER/doctor.

Eliminate all ignition sources if safe to do so.

Skin Contact:

Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. Call a POISON CENTER/doctor if you feel unwell. Store contaminated clothing under water and wash before reuse or discard.

IF exposed or concerned: Get medical advice/attention.

Eye Contact:

Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

Ingestion:

Ingestion is not an applicable route of exposure.

If ingestion occurs, rinse mouth with a small amount of water. Immediately call local poison control center or go to an emergency department. Never give anything by mouth to an unconscious or drowsy person.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Dry chemical, foam, carbon dioxide water spray or fog is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only.

Unsuitable Extinguishing Media:

Do not direct a solid stream of water or foam into hot, burning pools this may result in frothing and increase fire intensity.

Specific Hazards in Case of Fire:

Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Product is highly flammable and forms explosive mixtures with air, oxygen, and all oxidizing agents. Gas leaks or liquid spills readily form flammable mixtures at temperatures below ambient. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. Material can accumulate static charges which may cause an incendiary electrical discharge.

Dangerous when exposed to heat or flame. This material can be ignited by flame or spark under normal atmospheric condition.

Sensitivity To Mechanical Impact: Container could potentially burst or be punctured upon mechanical impact, releasing flammable vapor.

Fire-Fighting Procedures:

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions:

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Cool fire exposed containers with water.

Protect against bursting cans.

SECTION 6: ACCIDENTAL RELEASE MEASURES**Emergency Procedure:**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Do not touch or walk through spilled material.

Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated.

Protective Equipment:

Positive pressure, full-face piece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

Personal Precautions:

Avoid breathing vapor. Avoid contact with skin, eye or clothing. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use explosive proof equipment. Avoid inhalation of dust and contact with skin and eyes. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental Precautions:

Avoid release to the environment.

Methods and Materials for Containment and Cleaning Up:

Contain and collect spilled material with an inert absorbent and place in a container for disposal.

After containment, it should be shoveled removed by a vacuum truck (if liquid) to chemical waste area.

SECTION 7: HANDLING AND STORAGE**Precautions for safe handling:**

Keep away from heat/sparks/open flames/hot surfaces. -No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin,

or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

Conditions for safe storage including any incompatibilities:

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store away from heat. Store away from acids. Store away from oxidizing agents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls

Appropriate Engineering Controls:

Do not remain in area where available oxygen may be reduced. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray.

If ventilation is not adequate, use respiratory protection equipment.

Personal protective equipment (PPE)

Eye/face Protection:

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

The following eye/face protection(s) are recommended:

Safety Glasses with side shields

Skin Protection:

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over- boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

Gloves made from the following material(s) are recommended: Nitrile Rubber

Respiratory Protection:

High airborne concentrations may necessitate the use of self-contained breathing apparatus (SCBA).

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers.

Control parameters

Occupational exposure limits:

If a component is disclosed in section 3 but does not appear in the table below, an

occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional comments
Dimethyl ether	7631-86-9	ACGIH	TWA:350ppm	
Dimethyl ether	7631-86-9	OSHA	TWA:1450mg/m ³	
Liquefied petroleum gas	68476-85-7	ACGIH	TWA:500ppm	
Liquefied petroleum gas	68476-85-7	OSHA	TWA:2000mg/m ³	
Pentane	109-66-0	ACGIH	TWA:130ppm	
Pentane	109-66-0	OSHA	TWA:1000mg/m ³	
Iso-Hexane	107-83-5	ACGIH	TWA:110ppm	
Iso-Hexane	107-83-5	OSHA	TWA:950mg/m ³	

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor -Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

General Physical form:	Gas
Odor, Color, Grade:	Light cream colored, light green tea odor
Odor threshold	No Data Available
pH	Not Applicable
Melting point	No Data Available
Flash Point	-40°C (Closed Cup)
Evaporation rate	1.9 [Ref Std: ETHER=1]
Flammability (solid, gas)	Flammable Aerosol: Category 1.
Vapor Density	2.98 [Ref Std: AIR=1]
Density	0.698 g/ml
Specific Gravity	0.698 [Ref Std: WATER=1]
Solubility in Water	Nil
Solubility – non-water	No Data Available
Partition coefficient: n-Octanol/water	No Data Available
Autoignition temperature	No Data Available
Decomposition temperature	Not Applicable
Viscosity	Not Applicable
Hazardous Air Pollutants	
Molecular weight	No Data Available
Volatile Organic Compounds	75%

Heat of Combustion	≤43.5 kJ/g
Solids Content	20-30%

SECTION 10: STABILITY AND REACTIVITY

Reactivity

This material may be reactive with certain agents under certain conditions.

Stability:

Stable.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to Avoid:

Avoid heat, flames and sparks, avoid high temperatures, direct sunlight and contact with incompatible materials.

Incompatible Materials:

Avoid contact with strong oxidizers, reducers, acids, and alkalis.

Hazardous Decomposition Products:

Smoke, carbon monoxide and carbon dioxide may form in the event of incomplete combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

Intentional concentration and inhalation may be harmful or fatal.

Simple Asphyxiation: Signs/symptoms may include increased heart rate, rapid respirations, drowsiness, headache, incoordination, altered judgement, nausea, vomiting, lethargy, seizures, coma, and may be fatal.

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

May cause target organ effects after inhalation.

Skin Contact:

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

Eye Contact:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Ingestion:

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

Target Organ Effects:

Single exposure may cause:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Single exposure, above recommended guidelines, may cause: Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity:

Name	Route	Species	Value
Overall product	Ingestion	Rat	No data available; calculated ATE > 5,000 mg/kg
Dimethyl ether	Inhalation gas (4 hours)	Rat	LC50 > 200,000 ppm
Liquefied petroleum gas	Inhalation gas (4 hours)	Rat	LC50 > 200,000 ppm
Pentane	Dermal	Rat	LD50 > 5,000 mg/kg
Pentane	Inhalation gas (4 hours)	Rat	LC50 > 100 mg/l
Iso-Hexane	Dermal	Rat	LD50 > 3,000 mg/kg
Iso-Hexane	Inhalation gas (4 hours)	Rat	LC 50 > 32.9 mg/l
Iso-Hexane	Ingestion	Rat	LD50 8,000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

Harmful to aquatic life with long lasting effects.

Persistence and Degradability:

No data available.

Bio-accumulative Potential:

No data available.

Mobility in Soil:

No data available.

Other Adverse Effects:

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS**Disposal methods**

Dispose of contents/container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. The facility should be equipped to handle gaseous waste.

Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated& disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

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

SECTION 14: TRANSPORT INFORMATION**U.S. DOT Information:**

Ground Transportation: (Continental United States, Canada & Mexico): Consumer Commodity ORM-D

IMDG Information:

Shipping Name: Aerosols, flammable

UN/NA #: 1950

Hazard Class: 2.1

Marine Pollutant: No data available

IATA Information:

We do NOT recommend this product to be shipped via air. It would need to be repacked by an authorized packing company and the DG would have to be completed by a licensed hazardous material shipping company.

SECTION 15: REGULATORY INFORMATION**311/312 Hazard Categories:**

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

Immediate Hazard -Yes Delayed Hazard -Yes

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

Chemical Inventories:

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

SECTION 16: OTHER INFORMATION

NFPA Hazard Classification

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

Aerosol Storage Code: 3

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic

properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

HMIS Hazard Classification

Health: 2 Flammability: 4 Physical Hazard: 0 Personal Protection: X

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

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