

MATERIAL SAFETY DATA SHEET

Kingsley Mfg. Co.
1984 Placentia Avenue
Costa Mesa, CA 92628-5010

KMC #: 836045
Revision #1: 11/11/2003

Transportation Emergency: CHEMTREC 1-800-434-9300
NON-TRANSPORTATION EMERGENCY KINGSLEY MFG. CO. 1-800-854-3479

836045 Poly Adhesive

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Commercial Product name: 836045 Poly-Adhesive (199455)
Scotch-Grip 7312 Plastic Adhesive

2. Composition/information on ingredients

Dangerous constituents:

Chemical name	CAS-Number	Content	Symbol(s)	R-phrases(s)
Cyclohexane	110-82-7	60.0 - 70.0 %	F,N,Xi, Xn	11-38-50-53-65-67
Styrene-Butadiene Polymer	9003-55-8	7.0 - 13.0%	IARC-NON	
Polyterpene Resin	31393-98-3	7.0 - 13.0%		
Dipentene Polymer	9003-73-0	7.0 - 13.0%		
Acetone	67-64-1	3.0 - 7.0%	F,Xi	11-36-66-67
Methylstyrene Polymer	9017-27-0	0.5 - 1.5%		

3. Hazard identification

Hazard Symbol(s): F, N, Xi, Xn Harmful - Dangerous to the Environment

NFPA Rating: Health – 2 Flammability – 2 Reactivity - 1

Critical hazard to man and environment:

R 10 Flammable.
R 20 Harmful by inhalation.
R 36/38 Irritating to eyes and skin.

Harmful: May cause lung damage if swallowed. Irritating to skin. Vapours may cause drowsiness and dizziness. Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

4. First aid measures

After inhalation: Move victim to fresh air, loosen restrictive clothing and calm the victim. Do not allow victim to become chilled. Keep victim warm. Keep airway open. Consult physician.

After skin contact: Flush skin with large amounts of water. If irritation persists, get immediate medical attention

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Get immediate medical attention.

After swallowing: Do not induce vomiting. Consult physician.

5. Fire Fighting Measures

Hazardous Products of Combustion: May form, carbon dioxide and carbon monoxide, Aldehydes, Ketones and various hydrocarbons.

Suitable extinguishing media: Regular Foam, Dry Chemical, Carbon Dioxide.

Particular hazards arising from the preparation itself, combustion products or resulting gases: Toxic gases may form. Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum because product including residue can ignite explosively.

Particular protective equipment: Wear suitable protective clothing. Wear self-contained breathing apparatus.

6. Accidental Release Measures

Personal precautions: Do not breathe vapor. Wear protective equipment. Keep away from unprotected people.

Environmental precautions: Do not allow to enter drains, surface waters, basements or pits. Eliminate all ignition sources.

Additional information: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Provide adequate ventilation. Remove all ignition sources. Use only non-sparking tools.

7. Handling and storage

Handling

Information for safe handling: Keep away from heat. Do not breath vapor. Keep in a closed container when not in use.

Avoid contact with skin and eyes. Provide good ventilation and/or an exhaust system in the work area.

Precautions against fire and explosion: Keep away from sources of ignition. No smoking. Take precautionary measures against static discharges.

Storage

Requirement for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.

Information about storage in one common storage facility:

Do not store together with organic peroxides.

Containers may be hazardous when emptied as they may contain product residues.

8. Exposure controls / personal protection

Information on system design and engineering measures

Information for safe handling: Take precautionary measures against static discharges.

See also Information in chapter 7, section storage.

Components with workplace relevant concentration limits

CAS-Number	Chemical name (acc. to EC)	Type	Value
110-82-71	Cyclohexane	UK HSE TWA: UK HSE STEL:	100ppm 350 mg/m ³ OSE 300ppm 1050 mg/m ³ OES
67-64-1	Acetone	UL HSE TWA: UL HES STEL	500ppm 1210 mg/m ³ OES 1500ppm 3620 mg/m ³ OSE

9. Physical and chemical properties

Appearance and safety relevant data

Form: Viscous Liquid

Colour: Clear Amber

Odour: like Styrene

pH value: n.a.

Boiling temperature / boiling range: 80°C)

Melting point / melting range: n.a.

Flash point: -17.2°C

Ignition temperature: >= 400°C

Explosion limits: lower: 1.1 Vol% upper: 8 Vol%

Vapour pressure: at 20°C: 77.0000 mmHg

Density: at 20°C: 1 g/ml

Solubility in water: Very Slight

Viscosity: 150-300 centipoles

Volatile Organic Compounds: 611 gms.litre

Evaporation Rate: Greater than 2.0 (Water=1)

Specific Gravity: 0.820 (Water=1)

10. Stability and reactivity

Additional information

Product can undergo hazardous polymerization.

Condition to avoid (hazardous reactions):

Keep away from excessive heat, peroxides and polymerization catalysts.

Hazardous Decomposition: May form carbon dioxide and carbon monoxide, various hydrocarbons.

Chemical Stability: Stable

Materials to avoid: Reacts violently with strong oxidizing agents such as sulphuric acid and chlorosulfonic acid.

11. Toxicological information

Effects from Eye Contact:

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

Effects from Skin Contact:

Mild skin irritation (after prolonged or repeated contact), Signs/symptoms can include redness, swelling, and itching.

12. Ecological information

Ecotoxicological effects not determined.

13. Disposal considerations

Product

Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations.

14. Transport information

Overland transport

ADR/GGVS (road): Class 3, Number/letter 31c

RID/GGVE (railway): Class 3, Number/letter 31c

Warning board: Kemmler-number 30, Substance number 1866

Transport by sea

IMDG/GGVSee: Class 3.3

UN number: 1133

UK ROAD/SEA FREIGHT (IMO) CLASSIFICATION:

UN1133, Packing Group II, Proper Shipping Name: Adhesives

CDG-ROAD (If Applicable): Container of 10 Liters or more.

Air transport

ICAO/IATA: Class 3 No Sub-Risk

UN/ID number: 11133 PG: II

Proper shipping name: Adhesives

15. Regulatory information

Classification

Code letter and hazard symbol:

F (Flame) (Highly Flammable)
Xn Harmful (Harmful)
R 10 Flammable.
R 20 Harmful by inhalation.
R 36/38 Irritating to eyes and skin.

S phrase(s):

S 9 Keep container in a well-ventilated place.
S 16 Keep away from sources of ignition. No smoking.
S 23 Do not breath gas/fumes/vapor/spray (to be specified by the manufacturer).
S 33 Take precautionary measures against static discharges.
S 51 Use only in well ventilated areas.

16. Other information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

Intended use of product: For use in plastic applications.