

JOHN ASTLEY & SONS LTD

MATERIAL SAFETY DATA SHEET

60150 - 60152

08/04/07

EVO-STIK IMPACT ADHESIVE

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

Name of product: Impact E/S

Stock Code/s: 60150 to 60152

Manufacturer: Bostik Findley Limited
Common Road
Stafford. ST16 3EH
Tel: 01785 272727 Fax: 01785 257236
Emergency Telephones: 01785 255141. 01785 272650

Distributor: John Astley & Sons Ltd,
Renown Avenue,
Coventry Business Park,
Coventry, CV5 6UF
Tel: (024) 7685 4545. Fax: (024) 7685 4515. E-mail: sales@astleys.co.uk

2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %	Classification *
Cyclopentane	206-016-6	287-92-3	1-5	F;R11, 52/53
Ethyl Acetate	205-500-4	141-78-6	5-10	F;R11 Xi;R36-66-67
Heptane And Isomers			10-30	Xn;R65. Xi;R38. F;R11. N;R50/53-67
Hexane, Mixture Of Isomers			5-10	Xn;R65. Xi;R38. F;R11. N;R51/53-67
Methylcyclohexane	203-624-3	108-87-2	1-5	F;R11 Xn;R65 Xi;R38-67 N;R51/53
N-Hexane	203-777-6	110-54-3	< 1	F;R11 Repr3;R62 Xn;R65-48/20 Xi;R38 R67 N;R51/53
Pentane	203-692-4	109-66-0	< 1	F+;R12 Xn;R65-66-67 N;R51/53
Toluene	203-625-9	108-88-3	30-60	F;R11 Repr Cat.3;R63 Xn;R48/20-65 Xi;R38-67
Zinc Oxide	215-222-5	1314-13-2	< 1	N;R50/53.

* The full text for Risk phrases is shown in section 16

3. HAZARDS IDENTIFICATION

Hazards: Highly flammable. Irritating to skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness.

Classification: Xn;R48/20. Rep 3;R63. Xi;R38. F;R11. N;R51/53. R67. Full text is listed in section 16

Physical and Chemical Hazards: Vapours are heavier than air and may travel along the floor and in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember.

4. FIRST AID MEASURES

General Information: CAUTION! First aid personnel must be aware of own risk during rescue!
Remove victim immediately from source of exposure.

Notes to the Physician: No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical.
If in doubt, GET MEDICAL ATTENTION PROMPTLY!

Inhalation: Move into fresh air and keep at rest. Be aware that symptoms of chemical pneumonia (shortness of breath) may occur several hours after exposure.

Ingestion: Get medical attention immediately!
DO NOT induce vomiting if swallowed chemical is dissolved in petroleum-based material. Danger of aspiration and development of chemical pneumonia.

EVO-STIK IMPACT ADHESIVE

First aid measures.... Continued.

Skin contact: Wash off promptly and flush contaminated skin with water.
Promptly remove clothing if soaked through and flush skin with water.
If adhesive bonds skin, flush with water and seek medical assistance.
Do not attempt to force skin apart if bonded.
Continue to rinse for at least 15 minutes.
Get medical attention if any discomfort continues.

Eye contact: Immediately flush with plenty of water or eyewash solution for up to 10 minutes.
Immediately transport to hospital or eye specialist.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Extinguish with foam, carbon dioxide, dry powder or water fog.
Do not use water as an extinguisher.

Special Fire Fighting Procedures: Avoid breathing fire vapours. Keep up-wind to avoid fumes.
Fight advanced or massive fires from safe distance or protected location.
Be aware of danger of explosion. Keep run-off water out of sewers and water sources.
Dike for water control.

Unusual Fire & Explosion Hazards: HIGHLY FLAMMABLE! May explode when heated or when exposed to flames or sparks. Vapours are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back.
Fire causes formation of toxic gases. Vapours may give explosive mixture with air at temperatures below normal room temperature.

Specific Hazards: By heating and fire, harmful vapours/gases may be formed.

Protective Measures: Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear protective clothing as described in Section 8 of this safety data sheet.
Eye contact MUST be prevented by means of suitable personal protection equipment. Take precautionary measures against static discharges.
Do not smoke; use naked flames or other sources of ignition.
Avoid inhalation of dust and vapours. Provide adequate ventilation.
In case of spills, beware of slippery floors and surfaces.
Wear self-contained breathing apparatus.

Environmental Precautions: Do not allow ANY environmental contamination.
Contain spillages with sand, earth or any suitable adsorbent material.
Do not discharge into drains, watercourses or onto the ground.

Spill Clean Up: Wear necessary protective equipment.
Clean-up personnel should use respiratory and/or liquid contact protection.
Wash thoroughly after dealing with a spillage. Stop leak if possible without risk.
DO NOT touch spilled material! Extinguish all ignition sources.
Avoid sparks, flames, heat and smoking. Ventilate.
Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.
Ventilate well, stop flow of gas or liquid if possible. Remove ignition sources.
Do not allow chemical to enter confined spaces such as sewers due to explosion risk.

JOHN ASTLEY & SONS LTD

MATERIAL SAFETY DATA SHEET

60150 - 60152

08/04/07

EVO-STIK IMPACT ADHESIVE

7. HANDLING AND STORAGE

- Usage Precautions:** Do not handle broken packages without protective equipment.
Avoid contact with eyes. Keep away from heat, sparks and open flame.
Eliminate all sources of ignition.
Risk of vapour concentration on the floor and in low-lying areas.
Use explosion proof electric equipment.
Contaminated rags and cloths must be put in fireproof containers for disposal.
Do not eat, drink or smoke when using the product.
Ventilate well. Avoid breathing vapours.
Use approved respirator if air contamination is above accepted level.
- Storage Precautions:** Keep away from heat, sparks and open flame. Keep upright.
Take precautionary measures against static discharges.
Store in tightly closed original container in a dry and cool place.
- Storage Class:** Flammable liquid storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- | Ingredient Name: | Std | LT – ppm | LT - mg/m3 | ST – ppm | ST - mg/m3 |
|-------------------------|---------------|-----------------|-------------------|-----------------|-------------------|
| Toluene | WEL50 ppm(Sk) | | 191 mg/m3(Sk) | 150 ppm(Sk) | 574 mg/m3(Sk) |
| Ethyl Acetate | WEL200 ppm | | | 400 ppm | |
| N-Hexane | WEL20 ppm | | 72 mg/m3 | | |
- Ingredient Comments:** WEL = Workplace Exposure Limits
- Protective Equipment:** Goggles, Respiratory equipment, Gloves, Antistatic protective coverall.
- Process Conditions** Use engineering controls to reduce air contamination to permissible exposure level.
- Engineering Measures:** Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded.
- Respiratory Equipment:** If ventilation is insufficient, suitable chemical respirator with organic vapour cartridge must be provided.
- Hand Protection:** Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin.
Protective gloves should be used if there is a risk of direct contact or splash.
Viton rubber (fluor rubber).
- Eye Protection:** Wear splash-proof eye goggles to prevent any possibility of eye contact.
- Skin Protection:** Wear apron or protective clothing in case of splashes.
- Other Protection:** Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.
- Hygiene Measures:** Wash at the end of each work shift and before eating, smoking or using the toilet.
Use appropriate skin cream to prevent drying of skin.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:** Medium Viscous Liquid.
- Colour:** Light (or pale) Tan.
- Odour:** Organic solvent.
- Solubility:** Immiscible with water
- Density SG (g/ml):** 0.9 @ 25°C
- Boiling Point (°C):** 67 760 mm Hg
- Flash Point (°C):** minus 25 CC (Closed cup).

EVO-STIK IMPACT ADHESIVE**10. STABILITY AND REACTIVITY**

Stability: Avoid: Contact with acids. Contact with peroxides. Contact with alkalis.
Contact with combustibles.
Stable under normal temperature conditions and recommended use.

Conditions to avoid: Avoid heat, flames and other sources of ignition.

Hazardous

Decomposition Products: By fire, toxic gases (CO, CO₂, NO_x) may be formed.

11. TOXICOLOGICAL INFORMATION

General Information: Known or suspected teratogen.

Inhalation: Vapour may irritate respiratory system or lungs.
May cause nausea and vomiting, anaesthetic in high concentrations,
unconsciousness, possibly death.

Ingestion: Ingestion of material may cause nausea and vomiting

Skin Contact: May be absorbed through the skin. Product has a defatting effect on skin.
Prolonged contact may cause dryness of the skin.

Eye Contact: May cause severe irritation to eyes.
Contact with the eyes may cause physical damage

Route of entry: Inhalation. Skin absorption. Ingestion. Skin and/or eye contact.

Medical Symptoms: High concentrations of vapours may irritate respiratory system and lead to
headache, fatigue, nausea and vomiting.

Medical Considerations: Chronic respiratory and obstructive airway diseases.
Skin disorders and allergies. History of smoking.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Contamination of the terrestrial and aquatic environments should be avoided

13. DISPOSAL CONSIDERATIONS

General Information: This material is classified as special waste as defined by Special Waste
Regulations 1996 and must be disposed of by an authorised contractor

Disposal Methods: Incinerate.

Waste Class: Classified as Special Waste. Not permitted for landfill in liquid state.

14. TRANSPORT INFORMATION

Label For Conveyance Flammable Liquid.

UK Road Class 3

Proper Shipping Name Adhesives

UN No. Road 1133

ADR Class No. 3

ADR Pack group III

ADR Label No. 3

CEPIC Tec (R) No. 30GF1-I+III, 30GF1-sp

RID Pack group III

IMDG Class 3

IMDG Pack group III

MFAG Table No. See Guide

UN No. Air 1133

Air Pack group III

UK Road Pack group III

ADR Class Class 3: Flammable liquids.

Hazard No. (ADR) 30

Hazchem Code 3Y

RID Class No. 3

UN No. Sea 1133

IMDG Page No. 3

EMS F-E, S-D

Marine Pollutant No.

ICAO Class 3

EVO-STIK IMPACT ADHESIVE**15. REGULATORY INFORMATION**

Label For Supply:	Harmful.	Highly Flammable.	Dangerous for the environment.
Contains:	Toluene		
Risk Phrases:	R-11	Highly flammable.	
	R-38	Irritating to skin.	
	R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.	
	R-63	Possible risk of harm to the unborn child.	
	R-51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
	R-67	Vapours may cause drowsiness and dizziness.	
Safety Phrases:	S-2	Keep out of the reach of children	
	S-9	Keep container in a well-ventilated place.	
	S-13	Keep away from food, drink and animal feeding stuffs.	
	S-16	Keep away from sources of ignition - No Smoking.	
	S-24	Avoid contact with skin.	
	S-46	If swallowed, seek medical advice immediately and show this container or label.	
	S-51	Use only in well-ventilated areas.	
	S-36/37/39	Wear suitable protective clothing, gloves and eye/face protection.	
	S29/56	Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.	
	S-61	Avoid release to the environment. Refer to special instructions/ Safety Data Sheets.	
	S-64	If swallowed, rinse mouth with water (only if the person is conscious).	

16. OTHER INFORMATION

General Information:	This product should be used as directed by Bostik Findley Ltd. For further information consult the product data sheet or contact Technical Services.		
Information Sources:	This safety data sheet was compiled using current safety information supplied by distributor of raw materials.		
Revision Comments:	This safety data sheet supersedes all previous issues and users are cautioned to ensure that it is current. Destroy all previous data sheets and if in doubt contact Bostik Findley Limited.		
Risk Phrases in Full:	R-11	Highly flammable.	
	R-12	Extremely flammable	
	R-36	Irritating to eyes.	
	R-38	Irritating to skin.	
	R-48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.	
	R-50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
	R-51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
	R-52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
	R-62	Possible risk of impaired fertility.	
	R-63	Possible risk of harm to the unborn child.	
	R-65	Harmful: may cause lung damage if swallowed.	
	R-66	Repeated exposure may cause skin dryness or cracking.	
	R-67	Vapours may cause drowsiness and dizziness.	

DISCLAIMER

Every effort has been made to ensure that this information is accurate and up to date. No warranty is implied or given as to suitability for use for any activity which is not covered by either the technical data sheet or restrictions of use as above.

Revision Date: May 2005