

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

EVO-STIK IMPACT ADHESIVE Supercedes date 13-Nov-2024 Revision date 24-Oct-2025 Revision Number 7.01

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name EVO-STIK IMPACT ADHESIVE

Other means of identification

Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Adhesives

Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Company Name

Bostik Industries Limited IDA Business & Technology Park Ballynattin, Arklow, Co. Wicklow Ireland Y14 A370

Tel: +353 (0)402 32370

E-mail address SDS.box-EU@bostik.com

1.4. Emergency telephone number

Emergency Telephone

Ireland NPIC - National Poison Information Centre

Members of the Public: +353 (01) 8092166 (8.00 am to 10.00 pm - 7 days a week)

Healthcare Professionals: +353 (01) 8092566 (24 hour service)

United Kingdom Bostik: +44 (1785) 272650 (9am to 5pm Mon-Fri)

Europe 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids	Category 2 - (H225)
Skin irritation	Category 2 - (H315)
Eye irritation	Category 2 - (H319)
Skin sensitisation	Category 1 - (H317)
Specific target organ toxicity (single exposure)	Category 3 - (H336)
Category 3 Target organ effects: Narcotic effects.	
Hazardous to the aquatic environment - chronic	Category 2 - (H411)

2.2. Label elements

Contains Acetone; Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; Ethyl acetate; Formaldehyde, polymer with 4-(1,1-dimethylethyl)phenol; Rosin

Ireland - BE Page 1 / 22

EVO-STIK IMPACT ADHESIVE Supercedes date 13-Nov-2024 Revision date 24-Oct-2025 Revision Number 7.01



Signal word

Danger

Hazard statements

H225 - Highly flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary Statements - EU (§28, 1272/2008)

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

P391 - Collect spillage

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information

This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

In use, may form flammable/explosive vapour-air mixture.

PBT & vPvB

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-	REACH	EC No. (Index	Classification	Specific	M-Factor	M-Factor	Notes
	%	registration	No.)	according to	concentration		(long-ter	
		number		Regulation (EC) No.	limit (SCL)		m)	
				1272/2008 [CLP]				
Acetone	10 - <20	01-2119471330	200-662-2	Eye Irrit. 2 (H319)	-	-	-	-
67-64-1		-49-XXXX	(606-001-00-8)	STOT SE 3 (H336)				
				Flam. Liq. 2 (H225)				
				(EUH066)				

Ireland - BE Page 2 / 22

EVO-STIK IMPACT ADHESIVE Supercedes date 13-Nov-2024 Revision date 24-Oct-2025 Revision Number 7.01

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics RR-100219-3		01-2119475515 -33-xxxx		STOT SE 3 (H336) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Aquatic Chronic 2 (H411) Flam. Liq. 2 (H225)		-	-	-
Methyl ethyl ketone 78-93-3		01-2119457290 -43-XXXX	(606-002-00-3)	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225) (EUH066)	-	-	-	-
Ethyl acetate 141-78-6		01-2119475103 -46-XXXX	(607-022-00-5)	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225) (EUH066)	-	-	-	-
Hydrocarbons, C6, isoalkanes, <5% n-hexane 64742-49-0	5 - <10	01-2119484651 -34-XXXX	931-254-9	STOT SE 3 (H336) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Aquatic Chronic 2 (H411) Flam Liq. 2 (H225) (EUH066)	-	-	-	Р
Xylenes (o-, m-, p- isomers) 1330-20-7	5 - <10	01-2119488216 -32-XXXX		Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) STOT RE 2 (H373) Asp. Tox. 1 (H304) Aquatic Chronic 3 (H412) Flam. Liq. 3 (H226)		-	•	C
Formaldehyde, polymer with 4-(1,1-dimethylethyl) phenol 25085-50-1	5 - <10	[7]		Skin Sens. 1 (H317)		-	-	-
Ethylbenzene 100-41-4		01-2119489370 -35-XXXX	(601-023-00-4)	Acute Tox. 4 (H332) STOT RE 2 (H373) Asp. Tox. 1 (H304) Aquatic Chronic 3 (H412) Flam. Liq. 2 (H225)		-	-	-
Rosin 8050-09-7	0.1- <1	01-2119480418 -32-XXXX	232-475-7 (650-015-00-7)	Skin Sens. 1 (H317)	-	-	-	-
Xylene (reaction mass of ethylbenzene and xylene) RR-45541-4	0.1 - <0.5	01-2119488216 -32-xxxx		Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) STOT RE 2 (H373) Asp. Tox. 1 (H304) Aquatic Chronic 3 (H412) Flam. Liq. 3 (H226)		-	-	-

Substances identified by a number starting "RR-" in the CAS-field are substances for which the CAS# is not adopted in EU and we use an internal numbering system to track within our SDS software

NOTE [7] - No registration number is given for this substance because it is a polymer exempted from registration according to

Ireland - BE Page 3 / 22

EVO-STIK IMPACT ADHESIVE Supercedes date 13-Nov-2024

Revision date 24-Oct-2025 Revision Number 7.01

the provisions of Article 2(9) of REACH. All monomers or other substances within the polymer are registered or exempt from registration

Note C - Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note P - The harmonized classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0.1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	EC No. (Index No.)	CAS No.	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Acetone	200-662-2 (606-001-00-8)	67-64-1	5800	-	-	-	1
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	927-510-4	RR-100219-3	1	-	-	-	1
Methyl ethyl ketone	201-159-0 (606-002-00-3)	78-93-3	1	-	-	-	1
Ethyl acetate	205-500-4 (607-022-00-5)	141-78-6	-	-	-	14.4131	-
Hydrocarbons, C6, isoalkanes, <5% n-hexane	931-254-9	64742-49-0	16750	3350	-	-	-
Xylenes (o-, m-, p- isomers)	215-535-7 (601-022-00-9)	1330-20-7	2500	1990	4.8	-	-
Ethylbenzene	202-849-4 (601-023-00-4)	100-41-4	3500	15400	4.99	17.6	-
Rosin	232-475-7 (650-015-00-7)	8050-09-7	-	-	-	-	-
Xylene (reaction mass of ethylbenzene and xylene)	905-588-0	RR-45541-4	3523	1100	-	11	-

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical

attention immediately if symptoms occur.

Eye contactRinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and

Ireland - BE Page 4 / 22

EVO-STIK IMPACT ADHESIVE Supercedes date 13-Nov-2024 Revision date 24-Oct-2025 Revision Number 7.01

persists.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. May cause an allergic skin reaction. In the case of skin irritation or

allergic reactions see a doctor.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Call a doctor.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the

material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more

information. Avoid contact with skin, eyes or clothing.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.

Inhalation of high vapour concentrations may cause symptoms like headache, dizziness,

tiredness, nausea and vomiting.

Effects of Exposure No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctorsMay cause sensitisation in susceptible persons. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Risk of ignition. Vapours may form explosive mixture with air. Most vapours are heavier than air. Vapours may spread along ground and collect in low or confined areas (sewers,

basements, tanks).

Hazardous combustion products Carbon oxides. Carbon monoxide. Carbon dioxide (CO2). Hydrogen chloride.

5.3. Advice for firefighters

precautions for fire-fighters

Special protective equipment and Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled

material.

Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

Ireland - BE Page 5 / 22

EVO-STIK IMPACT ADHESIVE Supercedes date 13-Nov-2024 Revision date 24-Oct-2025 Revision Number 7.01

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or

spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment

Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up

Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

Prevention of secondary hazards

Eliminate all ignition sources if safe to do so. Residues which cannot be recycled are disposed of as chemical waste. Equipment cleaned with organic solvent, washings are collected and disposed of as solvent waste.

6.4. Reference to other sections

Reference to other sections

See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use personal protection equipment. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.

General hygiene considerations

Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

Recommended storage temperature

Keep at temperatures between 5 and 25 °C.

7.3. Specific end use(s)

Specific use(s) Adhesives.

Ireland - BE Page 6 / 22

EVO-STIK IMPACT ADHESIVE Supercedes date 13-Nov-2024 Revision date 24-Oct-2025 Revision Number 7.01

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Ireland	United Kingdom
Acetone 67-64-1	TWA: 500 ppm; TWA: 1210 mg/m ³ ;	TWA: 500 ppm; TWA: 1210 mg/m³;	TWA: 500 ppm; TWA: 1210 mg/m³;
	, , , , , , , , , , , , , , , , , , , ,	STEL: 1500	STEL: 1500 ppm;
		ppm (calculated);	STEL: 3620 mg/m ³ ;
		STEL: 3630	
		mg/m³ (calculated);	
Methyl ethyl ketone	TWA: 200 ppm;	TWA: 200 ppm;	TWA: 200 ppm;
78-93-3	TWA: 600 mg/m ³ ;	TWA: 600 mg/m ³ ;	TWA: 600 mg/m ³ ;
	STEL: 300 ppm;	STEL: 300 ppm;	STEL: 300 ppm;
	STEL: 900 mg/m ³ ;	STEL: 900 mg/m³;	STEL: 899 mg/m³;
Eshad a a state	T\A/A : 70.4 res es/res3.	pSk	pSk
Ethyl acetate 141-78-6	TWA: 734 mg/m³; TWA: 200 ppm;	TWA: 734 mg/m ³ ; TWA: 200 ppm;	TWA: 734 mg/m ³ ; TWA: 200 ppm;
141-76-0	STEL: 1468 mg/m ³ ;	STEL: 1468 mg/m ³ ;	STEL: 1468 mg/m ³ ;
	STEL: 1400 mg/m², STEL: 400 ppm;	STEL: 400 ppm;	STEL: 1400 mg/m²,
Xylenes (o-, m-, p- isomers)	TWA: 50 ppm;	TWA: 50 ppm;	TWA: 50 ppm;
1330-20-7	TWA: 221 mg/m ³ ;	TWA: 221 mg/m ³ ;	TWA: 220 mg/m ³ ;
	STEL: 100 ppm;	STEL: 100 ppm;	STEL: 100 ppm;
	STEL: 442 mg/m³;	STEL: 442 mg/m ³ ;	STEL: 441 mg/m³;
	pSk	pSk	pSk
Ethylbenzene	TWA: 100 ppm;	TWA: 100 ppm;	TWA: 100 ppm;
100-41-4	TWA: 442 mg/m ³ ;	TWA: 442 mg/m ³ ;	TWA: 441 mg/m ³ ;
	STEL: 200 ppm;	STEL: 200 ppm;	STEL: 125 ppm;
	STEL: 884 mg/m³;	STEL: 884 mg/m³;	STEL: 552 mg/m³;
Davis	pSk -	pSk	pSk
Rosin 8050-09-7	-	TWA: 0.05 mg/m ³ ; STEL: 0.15 mg/m ³ ;	TWA: 0.05 mg/m ³ ; fume STEL: 0.15 mg/m ³ ; fume
8030-09-7		31EL. 0.15 mg/m²,	poS
Magnesium oxide (MgO)		TWA: 4 mg/m³; respirable	TWA: 10 mg/m ³ ; inhalable
1309-48-4	_	dust	dust; fume
1000 10 1		TWA: 5 mg/m³; fume	TWA: 4 mg/m ³ ; respirable
		TWA: 10 mg/m ³ ; total	dust
		inhalable dust	STEL: 30 mg/m ³ ; inhalable
		STEL: 10 mg/m ³ ; fume	dust
		STEL: 12	STEL: 12 mg/m ³ ; fume and
		mg/m³ (calculated); respira	respirable dust
		ble dust	
		STEL: 30	
		mg/m³ (calculated); total inhalable dust	
Xylene (reaction mass of ethylbenzene and xylene)	TWA: 50 ppm	TWA: 50 ppm	STEL: 100 ppm
RR-45541-4	TWA: 221 mg/m ³	TWA: 221 mg/m ³	STEL: 441 mg/m ³
1410 100 11 1	STEL: 100 ppm	STEL: 100 ppm	TWA: 50 ppm
	STEL: 442 mg/m ³	STEL: 442 mg/m ³	TWA: 220 mg/m ³
	S*	Skin	Skin

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)					
Acetone (67-64-1)					
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor		
Long term Systemic health effects worker	Dermal	186 mg/kg bw/d			

Ireland - BE Page 7 / 22

EVO-STIK IMPACT ADHESIVE Supercedes date 13-Nov-2024

Revision date 24-Oct-2025 Revision Number 7.01

Short term	Inhalation	2420 mg/m ³	1
Local health effects	Illinalation	2420 mg/m²	
worker			
Long term	Inhalation	1210 mg/m³	
Systemic health effects			
worker			
Hydrocarbons, C7, n-alkanes			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker	Inhalation	2085 mg/m³	
Long term			
Systemic health effects	Damas	200	
worker	Dermal	300 mg/kg bw/d	
Long term Systemic health effects			
Cysternic riculti chects			
Methyl ethyl ketone (78-93-3)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker	Dermal	1161 mg/kg bw/d	
Long term	2 5	1	
Systemic health effects			
worker	Inhalation	600 mg/m ³	
Long term			
Systemic health effects			
Cth			
Ethyl acetate (141-78-6) Type	Exposure route	Derived No Effect Level	Safety factor
1,460	Exposure route	(DNEL)	
worker	Dermal	63 mg/kg bw/d	
Long term			
Systemic health effects			
worker	Inhalation	1468 mg/m³	
Short term			
Systemic health effects worker	Inhalation	734 mg/m³	
Long term	IIIIIaiation	734 mg/m²	
Local health effects			
worker	Inhalation	1468 mg/m³	
Short term			
Local health effects			
worker	Inhalation	734 mg/m³	
Long term			
Systemic health effects			
Hydrocarbons, C6, isoalkane	es. <5% n-hexane (64742-49	-0)	
Type	Exposure route	Derived No Effect Level	Safety factor
		(DNEL)	
worker	Dermal	13964 mg/kg bw/d	
Systemic health effects			
Long term			
worker	Inhalation	2085 mg/m ³	
Long term			
Systemic health effects			l
Xylenes (o-, m-, p- isomers) ((1330-20-7)		
Type	Exposure route	Derived No Effect Level	Safety factor
7.7.		(DNEL)	
Long term	Dermal	180 mg/kg bw/d	
	•		•

Ireland - BE Page 8 / 22

EVO-STIK IMPACT ADHESIVE Supercedes date 13-Nov-2024

Revision date 24-Oct-2025 Revision Number 7.01

Systemic health effects worker			
Long term Systemic health effects worker	Inhalation	77 mg/m³	
Short term Local health effects Systemic health effects worker	Inhalation	289 mg/m³	
Rosin (8050-09-7)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Local health effects	Inhalation	10 mg/m³	
worker	Dermal	2131 mg/kg bw/d	

Xylene (reaction mass of eth			Cofety footon
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	221 mg/m³	
worker Long term Local health effects	Inhalation	221 mg/m³	
worker Short term Local health effects	Inhalation	442 mg/m³	
worker Long term Systemic health effects	Dermal	212 mg/kg bw/d	

Derived No Effect Level (DNEL) Acetone (67-64-1)					
Consumer Long term Systemic health effects	Inhalation	200 mg/m³			
Consumer Long term Systemic health effects	Dermal	62 mg/kg bw/d			
Consumer Long term Systemic health effects	Oral	62 mg/kg bw/d			

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (RR-100219-3)					
Туре	Exposure route	Derived No Effect Level	Safety factor		
		(DNEL)			
Consumer	Inhalation	447 mg/m³			
Long term					
Systemic health effects					
Consumer	Dermal	149 mg/kg bw/d			
Long term					
Systemic health effects					

Ireland - BE Page 9 / 22

EVO-STIK IMPACT ADHESIVE Supercedes date 13-Nov-2024

Revision date 24-Oct-2025 Revision Number 7.01

Consumer	Oral	149 mg/kg bw/d	
Long term			
Systemic health effects			
Methyl ethyl ketone (78-93-3)			
Туре	Exposure route	Derived No Effect Level	Safety factor
		(DNEL)	
Consumer	Dermal	412 mg/kg bw/d	
Long term			
Systemic health effects	1. 1	1,00	
Consumer	Inhalation	106 mg/m ³	
Long term			
Systemic health effects	Ovel	24	
Consumer	Oral	31 mg/kg bw/d	
Local health effects Systemic health effects			
Systemic nealth effects			
Ethyl acetate (141-78-6)			
Type	Exposure route	Derived No Effect Level	Safety factor
1,750	Exposure route	(DNEL)	
Consumer	Oral	4.5 mg/kg bw/d	
Long term		no mg/kg zm/a	
Systemic health effects			
Consumer	Dermal	37 mg/kg bw/d	
Long term		3. 3	
Systemic health effects			
Consumer	Inhalation	734 mg/m ³	
Short term			
Systemic health effects			
Consumer	Inhalation	367 mg/m ³	
Long term			
Local health effects			
Consumer	Inhalation	734 mg/m³	
Short term			
Local health effects			
Consumer	Inhalation	367 mg/m³	
Long term			
Systemic health effects			
Posin (9050-00-7)			
Rosin (8050-09-7) Type	Exposure route	Derived No Effect Level	Safety factor
l ype	Lyposure route	(DNEL)	Calety factor
Consumer	Dermal	1065 mg/kg bw/d	
Long term		1000 mg/kg bw/d	
Systemic health effects			
Consumer	Oral	1065 mg/kg bw/d	
Long term			
Systemic health effects			
	•	•	
Xylene (reaction mass of ethylbe	nzene and xylene) (RR-4554	1-4)	
Туре	Exposure route	Derived No Effect Level	Safety factor
		(DNEL)	
Consumer	Inhalation	65.3 mg/m³	
Long term			
Systemic health effects			
Consumer	Inhalation	260 mg/m ³	
Short term			
Systemic health effects		05.0 / 0	
	Inhalation	65.3 mg/m³	

Ireland - BE Page 10 / 22

EVO-STIK IMPACT ADHESIVE Supercedes date 13-Nov-2024 Revision date 24-Oct-2025 Revision Number 7.01

Local health effects			
Consumer	Inhalation	260 mg/m³	
Short term			
Local health effects			
Consumer	Dermal	125 mg/kg bw/d	
Long term			
Systemic health effects			
Consumer	Oral	12.5 mg/kg bw/d	
Long term			
Systemic health effects			

Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PNEC)			
Acetone (67-64-1)			
Environmental compartment	Predicted No Effect Concentration (PNEC)		
Freshwater	10.6 mg/l		
Freshwater - intermittent	21 mg/l		
Marine water	1.06 mg/l		
Microorganisms in sewage treatment	100 mg/l		
Freshwater sediment	30.4 mg/kg dry weight		
Marine water	3.04 mg/kg dry weight		
Soil	29.5 mg/kg dry weight		

Methyl ethyl ketone (78-93-3)			
Environmental compartment	Predicted No Effect Concentration (PNEC)		
Freshwater	55.8 mg/l		
Marine water	55.8 mg/l		
Freshwater sediment	287.74 mg/l		
Marine sediment	287.7 mg/l		
Soil	22.5 mg/l		

Ethyl acetate (141-78-6)			
Environmental compartment	Predicted No Effect Concentration (PNEC)		
Freshwater	0.24 mg/l		
Marine water	0.024 mg/l		
Freshwater sediment	1.15 mg/kg		
Marine sediment	0.115 mg/kg		
Soil	0.148 mg/kg		
Microorganisms in sewage treatment	650 mg/l		

Rosin (8050-09-7)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.002 mg/l
Marine water	0 mg/l
Sewage treatment plant	1000 mg/l
Freshwater sediment	0.007 mg/l
Marine sediment	0.001 mg/l

Xylene (reaction mass of ethylbenzene and xylene) (RR-45541-4)				
Environmental compartment	Predicted No Effect Concentration (PNEC)			
Freshwater	0.327 mg/l			
Marine water	0.327 mg/l			
Microorganisms in sewage treatment	6.58 mg/l			
Freshwater sediment	12.46 mg/kg dry weight			
Soil	2.31 mg/kg dry weight			

8.2. Exposure controls

Engineering controls

Ensure adequate ventilation, especially in confined areas. Vapours/aerosols must be

Ireland - BE Page 11 / 22

EVO-STIK IMPACT ADHESIVE Supercedes date 13-Nov-2024

Revision date 24-Oct-2025 Revision Number 7.01

exhausted directly at the point of origin.

Personal protective equipment

Eye/face protection Tight sealing safety goggles. Face protection shield. Eye protection must conform to

standard EN 166

Hand protection Wear protective gloves. The breakthrough time of the gloves depends on the material

and the thickness as well as the temperature.

Skin and body protection Antistatic footwear. Wear fire/flame resistant/retardant clothing. Suitable protective

clothing.

Respiratory protection In case of inadequate ventilation wear respiratory protection. In case of mist, spray or

aerosol exposure wear suitable personal respiratory protection and protective suit.

Recommended filter type: Organic gases and vapours filter conforming to EN 14387.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid

AppearanceViscous LiquidColourLight yellowOdourSolvent.

Property Values Remarks • Method

Melting point / freezing point No data available

Initial boiling point and boiling 56 °C

range

Flammability No data available Flammable liquid

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point -20 °C

Autoignition temperature No data available

Decomposition temperature

pH No data available Not applicable. Insoluble in water.

pH (as aqueous solution)No data availableNone knownKinematic viscosityapprox 4000 mm²/s@ 20 °CDynamic viscosityapprox 3500 mPa s@ 23 °C

Water solubility Insoluble in water.
Solubility(ies) No data available
Partition coefficient No data available

Vapour pressure <110 kPa kPa

Relative density 0.84

Bulk density

Density

Relative vapour density

No data available
No data available

Particle characteristics

Particle Size No information available Particle Size Distribution No information available

9.2. Other information

Solid content (%) approx 23 Softening point Not relevant

VOC content 640 g/L Directive 2004/42/EC on the limitation of emissions of

volatile organic compounds

9.2.1. Information with regards to physical hazard classes Not applicable

9.2.2. Other safety characteristics

Ireland - BE Page 12 / 22

EVO-STIK IMPACT ADHESIVE Supercedes date 13-Nov-2024 Revision date 24-Oct-2025 Revision Number 7.01

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical

None.

impact

Sensitivity to static discharge Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition

products

None under normal use conditions. Stable under recommended storage conditions.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract. May cause drowsiness or dizziness.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye

irritation. (based on components). May cause redness, itching, and pain.

Skin contact May cause sensitisation by skin contact. Specific test data for the substance or mixture is

not available. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons. (based on components). Causes skin irritation.

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes. Inhalation

of high vapour concentrations may cause symptoms like headache, dizziness, tiredness,

nausea and vomiting.

Ireland - BE Page 13 / 22

EVO-STIK IMPACT ADHESIVE Supercedes date 13-Nov-2024 Revision date 24-Oct-2025 Revision Number 7.01

Acute toxicity

Numerical measures of toxicity

The following ATE values have been calculated for the mixture

ATEmix (oral) >2000 mg/kg
ATEmix (dermal) 26,557.30 mg/kg
ATEmix (inhalation-gas) >20000 ppm
ATEmix (inhalation-dust/mist) 65.00 mg/L
ATEmix (inhalation-vapour) 174.3389 mg/L

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Acetone	=5800 mg/kg (Rattus) 3000 mg/Kg (mouse)	>15800 mg/Kg (Rattus)	=79 mg/l(Rattus) 4 h
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	LD50 >5840 mg/kg Rat	LD50 >2920 mg/kg (Rattus)	LC50 >23.3 mg/L (4h)(Rat, vapour) (OECD 403)
Methyl ethyl ketone	=2483 mg/kg (Rattus)	= 5000 mg/kg (Oryctolagus cuniculus)	=11700 ppm (Rattus) 4 h
Ethyl acetate	=5620 mg/kg (Rattus)	> 18000 mg/kg (Oryctolagus cuniculus) > 20 mL/kg (Oryctolagus cuniculus)	LC0 29.3 mg/l air
Hydrocarbons, C6, isoalkanes, <5% n-hexane	>16750 mg/Kg (Rattus)	>3350 mg/Kg (Oryctolagus cuniculus) OECD 402	259354 mg/m ³ (vapour) (rat OECD 403)
Xylenes (o-, m-, p- isomers)	=3500 mg/kg (Rattus)	> 1700 mg/kg (Oryctolagus cuniculus) > 4350 mg/kg (Oryctolagus cuniculus)	= 11 mg/L (ATE)
Formaldehyde, polymer with 4-(1,1-dimethylethyl)phenol	>2000 mg/Kg (Rattus)	>2000 mg/Kg (Rattus)	-
Ethylbenzene	=3500 mg/kg (Rattus)	= 15400 mg/kg (Oryctolagus cuniculus)	=17.6 mg/L (Rattus) 4 h
Rosin	>2000 mg/Kg (Rattus)	> 2500 mg/kg (Oryctolagus cuniculus)	=1.5 mg/L (Rattus) 4 h
Xylene (reaction mass of ethylbenzene and xylene)	=3500 mg/kg (Rattus)	>10000 mg/kg (Oryctolagus cuniculus) 1100 mg/Kg (Rattus)	=>11 mg/L (Rattus) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Acetone (67-64-1)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405:	Rabbit	eye			irritant
Acute Eye					
Irritation/Corrosion					

Methyl ethyl ketone (78-93-3)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405:	Rabbit	eye			irritant
Acute Eye					
Irritation/Corrosion					

Ireland - BE Page 14 / 22

EVO-STIK IMPACT ADHESIVE Supercedes date 13-Nov-2024 Revision date 24-Oct-2025 Revision Number 7.01

Respiratory or skin sensitisation May cause an allergic skin reaction.

Acetone (67-64-1)			
Method	Species	Exposure route	Results
GPMT - Guinea pig maximisation test	Guinea pig	Dermal	Not a skin sensitiser

Methyl ethyl ketone (78-93-3)
Ethyl acetate (141-78-6)
Xylenes (o-, m-, p- isomers) (1330-20-7)

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Component Information Ethyl acetate (141-78-6)		
Method	Species	Results
OECD Test No. 474: Mammalian Erythrocyte Micronucleus Test	in vivo Hamster	Negative
OECD Test No. 471: Bacterial Reverse Mutation Test	in vitro Salmonella typhimurium	Negative
OECD Test No. 473: In vitro Mammalian Chromosome Aberration Test	in vitro Hamster Ovary	Negative

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

Chemical name	European Union	
Xylenes (o-, m-, p- isomers)	Muta. 1B	
Ethylbenzene	Muta. 1B	

Carcinogenicity

Based on available data, the classification criteria are not met.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union
Xylenes (o-, m-, p- isomers)	Carc. 1B
Ethylbenzene	Carc. 1B

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT - single exposure

May cause drowsiness or dizziness.

Acetone (67-64-1)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
Experiences made in					Narcotic effects
practice					

Methyl ethyl ketone (78-93-3)						
Method	Species	Exposure route	Effective dose	Exposure time	Results	
Experiences made in practice					May cause drowsiness or dizziness Causes central nervous	
					system depression	

Ireland - BE Page 15 / 22

EVO-STIK IMPACT ADHESIVE Supercedes date 13-Nov-2024 Revision date 24-Oct-2025 Revision Number 7.01

STOT - repeated exposure

Based on available data, the classification criteria are not met.

Acetone (67-64-1)	Acetone (67-64-1)						
Method	Species	Exposure route	Effective dose	Exposure time	Results		
OECD Test No. 408: Repeated Dose 90-Day Oral Toxicity Study in Rodents	Rat	Oral	200-3400 mg/kg bw/d	91 days	No Observed Adverse Effect Level LOAEL 1700 mg/kg bw/d		
Not specified	Rat	Inhalation	19000 ppm	14, 28, 56 days	NOAEC 19000 ppm No Observed Adverse Effect Level		

Methyl ethyl ketone (78-93-3)						
Method	Species	Exposure route	Effective dose	Exposure time	Results	
OECD Test No. 413:	Rat	Inhalation vapour	1254, 2518, 5041	90 days	NOAEC 5014 ppm	
Sub-chronic Inhalation			ppm/6h/d			
Toxicity: 90-day Study						

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties Based on available data, the classification criteria are not met.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic	Fish	Toxicity to	Crustacea	M-Factor	M-Factor
	plants		microorganisms			(long-term)
Acetone	-	LC50 96 h 4.74	EC50 = 14500	EC50 48 h		
67-64-1		- 6.33 mL/L	mg/L 15 min	10294 - 17704		
		(Oncorhynchus		mg/L (Daphnia		
		mykiss)		magna Static)		
Hydrocarbons, C7,	ErL50 (72h) =	LL50 (96h)	-	EL50 (48h) =		
n-alkanes, isoalkanes,	10-30 mg/L	>13.4 mg/L		3.0 mg/L		
cyclics	(Pseudokirchner	(Oncorhynchus		(Daphnia		
RR-100219-3	iella subcapitata)	mykiss)		magna)		
		OECD 203				
Methyl ethyl ketone	EC50=1972 mg/l	LC50: 3130 -	EC50 = 3403	EC50 48 h > 308		
78-93-3	(Pseudokirchner	3320mg/L (96h,	mg/L 30 min	mg/L (Daphnia		
	iella subcapitata)	Pimephales	EC50 = 3426	magna)		
		promelas)	mg/L 5 min			
Ethyl acetate	EC50:	LC50: =484mg/L	EC50 = 1180	EC50: =560mg/L		
141-78-6	=3300mg/L (48h,	(96h,	mg/L 5 min	(48h, Daphnia		
	Desmodesmus	Oncorhynchus	EC50 = 1500	magna)		
	subspicatus)	mvkiss) LC50:	ma/L 15 min			

Ireland - BE Page 16 / 22

EVO-STIK IMPACT ADHESIVE Supercedes date 13-Nov-2024 Revision date 24-Oct-2025 Revision Number 7.01

		352 - 500mg/L	EC50 = 5870		
		(96h,	mg/L 15 min		
		Oncorhynchus	EC50 = 7400		
		mykiss) LC50:	mg/L 2 h		
		220 - 250mg/L			
		(96h,			
		Pimephales			
		promelas)			
Hydrocarbons, C6,	EL50 (72h) =	LL50 (96h) =	-	EL50 (48h)=	
isoalkanes, <5%	13.6 mg/l	18.27 mg/l		31.9 mg/l	
n-hexane	(Pseudokirchner	(Oncorhynchus		(Daphnia	
64742-49-0	iella subcapitata)	mykiss)		magna)	
Xylenes (o-, m-, p-	EC50: =11mg/L	LC50 96 h 2.6	EC50 = 0.0084	EC50 48 h = 3.4	
isomers)	(72h,	mg/L	mg/L 24 h	mg/L (Dappnia	
1330-20-7	Pseudokirchneri	(Oncorhynchus		magna)	
	ella subcapitata)	mykiss) (OECD			
		203)			
Ethylbenzene		LC50 96 h = 4.2	EC50 = 9.68	EC50: 1.8 -	
100-41-4	11.3 mg/L	mg/L	mg/L 30 min	2.4mg/L (48h,	
	(Pseudokirchner	(Oncorhynchus	EC50 = 96 mg/L	Daphnia magna)	
	iella subcapitata)	mykiss	24 h		
		semi-static)			
Rosin	EC50: =400mg/L	LC50 (96h)	EC50 = 31.5	EC50 48 h	
8050-09-7		>10mg/L (Danio	mg/L 30 min	>100 mg/L	
	Desmodesmus	rerio)		(Daphnia magna	
	subspicatus))	
Xylene (reaction mass	EC50 (72hr) 2.2	LC50(96h) 2.6	EC50 = 0.0084	LC50(24h) 1	
of ethylbenzene and	mg/l	mg/l	mg/L 24 h	mg/l (Daphnia	
xylene)	(Selenastrum	(Oncorhynchus		magna-OECD	
RR-45541-4	capricornutum)	mykiss-OECD		202)	
		203)			

12.2. Persistence and degradability

Persistence and degradability No information available.

Acetone (67-64-1)					
Method	Exposure time	Value	Results		
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	,	biodegradation	91 % Readily biodegradable		

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (RR-100219-3)						
Method	Exposure time	Value	Results			
OECD Test No. 301F: Ready	28 days	98%	Readily biodegradable			
Biodegradability: Manometric	_					
Respirometry Test (TG 301 F)						

Methyl ethyl ketone (78-93-3)						
Method	Exposure time	Value	Results			
OECD Test No. 301D: Ready	28 days	biodegradation	98 % Readily biodegradable			
Biodegradability: Closed Bottle Test	-	-				
(TG 301 D)						

Xylenes (o-, m-, p- isomers) (1330-20-7)					
Method	Exposure time	Value	Results		
OECD Test No. 301F: Ready	28 days	biodegradation	87.8 % Readily biodegradable		
Biodegradability: Manometric		-			
Respirometry Test (TG 301 F)					

Ireland - BE Page 17 / 22

EVO-STIK IMPACT ADHESIVE Supercedes date 13-Nov-2024

Revision date 24-Oct-2025 Revision Number 7.01

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Acetone	-0.24
Methyl ethyl ketone	0.3
Ethyl acetate	0.73
Hydrocarbons, C6, isoalkanes, <5% n-hexane	3.6
Xylenes (o-, m-, p- isomers)	3.15
Ethylbenzene	3.6
Rosin	7.7
Xylene (reaction mass of ethylbenzene and xylene)	3.15

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessmentBased on available data, the classification criteria are not met.

Chemical name	PBT and vPvB assessment
Acetone	Not PBT/vPvB
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	Not PBT/vPvB
Methyl ethyl ketone	Not PBT/vPvB
Ethyl acetate	Not PBT/vPvB
Hydrocarbons, C6, isoalkanes, <5% n-hexane	Not PBT/vPvB
Xylenes (o-, m-, p- isomers)	Not PBT/vPvB
Ethylbenzene	Not PBT/vPvB
Rosin	Not PBT/vPvB
Xylene (reaction mass of ethylbenzene and xylene)	Not PBT/vPvB

12.6. Endocrine disrupting properties Endocrine disrupting properties

Endocrine disruption for the environment

Based on available data, the classification criteria are not met.

12.7. Other adverse effects Other adverse effects

Other adverse effects No information available.

PMT or vPvM propertiesBased on available data, the classification criteria are not met.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products

Should not be released into the environment. Uncured product should be disposed of as hazardous waste. Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

Contaminated packagingEmpty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Handle contaminated packages in the same way as the product itself.

European Waste Catalogue 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous

15 01 10*: Packaging containing residues of or contaminated by dangerous substances

Ireland - BE Page 18 / 22

EVO-STIK IMPACT ADHESIVE Supercedes date 13-Nov-2024

Revision date 24-Oct-2025 Revision Number 7.01

Other information Waste codes should be assigned by the user based on the application for which the

product was used.

SECTION 14: Transport information

Note: The information shown here, may not always agree with the bill of lading shipping

description for the material. The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments made in non-bulk packages (see regulatory

definition).

Land transport (ADR/RID)

14.1 UN number or ID number UN1133 **14.2 UN proper shipping name** Adhesives

14.3 Transport hazard class(es) 3
Labels 3

14.4 Packing group

Description UN1133, Adhesives, 3, II, (D/E), Environmentally Hazardous

14.5 Environmental hazards Yes

14.6 Special precautions for user

Special Provisions640DClassification codeF1Tunnel restriction code(D/E)Limited quantity (LQ)5 LADR Hazard Id (Kemmler33

Number)

<u>IMDG</u>

14.1 UN number or ID number14.2 UN proper shipping nameAdhesives

14.3 Transport hazard class(es) 314.4 Packing group | | |

Description UN1133, Adhesives, 3, II, (-20°C c.c.), Marine pollutant

14.5 Marine pollutant P14.6 Special precautions for user

Special Provisions None
Limited Quantity (LQ) 5 L
EmS-No. F-E, S-D

14.7 Maritime transport in bulk according to IMO instruments

Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
3

14.4 Packing group

Description UN1133, Adhesives, 3, II

14.5 Environmental hazards Yes
14.6 Special precautions for user
Special Provisions A3
Limited quantity (LQ) 1 L
ERG Code 3L

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

Ireland - BE Page 19 / 22

EVO-STIK IMPACT ADHESIVE Supercedes date 13-Nov-2024

Revision date 24-Oct-2025 Revision Number 7.01

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Export Notification requirements

This product does not contain substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals above the level that triggers a labeling obligation under Regulation (EC) No 1272/2008. Therefore this product is not subject to prior informed consent notification.

Dangerous substance category per Seveso Directive (2012/18/EU)

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Named dangerous substances per Seveso Directive (2012/18/EU)

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Hydrocarbons, C6, isoalkanes, <5% n-hexane -		25000
64742-49-0		

Ozone-depleting substances (ODS) regulation (EC) 2024/590

Not applicable

Persistent Organic Pollutants

Not applicable

REGULATION (EU) 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on the marketing and use of explosives precursors

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. This product contains:

Chemical name	Reporting of suspicious transactions, disappearances and thefts	Restricted	Registration
Acetone - 67-64-1	Regulated		

Ireland - BE Page 20 / 22

EVO-STIK IMPACT ADHESIVE Supercedes date 13-Nov-2024 Revision date 24-Oct-2025 Revision Number 7.01

Regulations on drug precursors (EC) No 111/2005 (export) and 273/2004 (internal trade)

This product does not contain any substance(s) which are regulated pursuant to the EU regulations on drug precursors [(EC) No. 111/2005 and (EC) No. 273/2004] above levels that can be easily used or extracted by readily applicable or economically viable means.

National regulations

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of any hazard and/or precautionary statements referred to under Sections 2-15

EUH066 - Repeated exposure may cause skin dryness or cracking

H225 - Highly flammable liquid and vapour

H226 - Flammable liquid and vapour

H304 - May be fatal if swallowed and enters airways

H312 - Harmful in contact with skin

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H373 - May cause damage to organs through prolonged or repeated exposure

H411 - Toxic to aquatic life with long lasting effects

H412 - Harmful to aquatic life with long lasting effects

Notes relating to the identification, classification and labelling of substances

Note C - Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers. Note P - The harmonized classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0.1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least

the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply

SVHC: Substances of Very High Concern for Authorisation:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances

vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

STOT RE: Specific target organ toxicity - Repeated exposure STOT SE: Specific target organ toxicity - Single exposure

EWC: European Waste Catalogue

LOW: List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm)

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IATA: International Air Transport Association

ICAO: ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG: International Maritime Dangerous Goods

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

Legend SECTION 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

AGW Occupational exposure limit value BGW Biological limit value Ceiling Maximum limit value Sk* Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method

Ireland - BE Page 21 / 22

EVO-STIK IMPACT ADHESIVE Supercedes date 13-Nov-2024

Revision date 24-Oct-2025 Revision Number 7.01

Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Chronic aquatic toxicity	Calculation method
Chronic aquatic toxicity	On basis of test data
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)

European Chemicals Agency (ECHA) (ECHA_API)

U.S. Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGL(s))

International Uniform Chemical Information Database (IUCLID)

Japan National Institute of Technology and Evaluation (NITE)

NIOSH (National Institute for Occupational Safety and Health)

International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set

Prepared By Product Safety & Regulatory Affairs

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Training Advice Provide adequate information, instruction, and training for operator

Further information No information available

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and Regulation (EC) No. 1272/2008

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End of Safety Data Sheet

Ireland - BE Page 22 / 22