



SAFETY DATA SHEET

according to Regulation (EU) 2015/830

Page 1/8

Flextack™ solution

Revision 2
Revision date 2022-04-14

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

1.1. Product identifier

Product name Flextack™ solution

1.3. Details of the supplier of the safety data sheet

Company	Ransom & Randolph
Address	3535 Briarfield Boulevard, PO Box 1570 Maumee, Ohio 43537 USA
Web	www.ransom-randolph.com
Telephone	+1 (419) 865-9497
Fax	+1 (419) 865-9997
Email	SDS@ransom-randolph.com
Email address of the competent person	dyouel@ransom-randolph.com

1.4. Emergency telephone number

Emergency telephone number	USA +1 419 865 9497
Company	Ransom & Randolph Co. 08:00-17:00 (US Eastern Std. / GMT minus 5)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008 : EUH066; Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;

2.2. Label elements

Hazard pictograms This substance / mixture has been classified in accordance with the US Federal OSHA Hazard Communication Standard 29CFR 1910.1200. Substance concentration band-ranges are presented, and minor ingredient composition maybe withheld, to protect trade secrets.



Signal Word Danger

Hazard Statement EUH066 - Repeated exposure may cause skin dryness or cracking.
Flam. Liq. 2: H225 - Highly flammable liquid and vapour.
Eye Irrit. 2: H319 - Causes serious eye irritation.
STOT SE 3: H336 - May cause drowsiness or dizziness.

Precautionary Statement: Prevention P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/lighting// equipment.

Flex tack™ solution

Revision 2

Revision date 2022-04-14

2.2. Label elements

Precautionary Statement: Response	P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 - Call a POISON CENTER/doctor/ /if you feel unwell. P337+P313 - If eye irritation persists: Get medical advice/attention. P370+P378 - In case of fire: Use carbon dioxide (CO ₂), Alcohol resistant foam, Dry chemical to extinguish.
Precautionary Statement: Storage	P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to local and national regulations

Further information

Not applicable. PBT and vPvB assessment.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Ethyl acetate	607-022-00-5	141-78-6	205-500-4		80 - 90%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;
Esters, stabilized with glycerol		65997-13-9	266-042-9		1 - 10%	

Further information

Full text for all Risk Phrases mentioned in this section are displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. Seek medical attention.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITING.

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

Inhalation	Harmful by inhalation. Irritant, moderate respiratory. Inhalation may cause nausea and vomiting.
Eye contact	Irritant, moderate eye.
Skin contact	Irritating to skin.
Ingestion	Repeated or prolonged exposure may cause damage to liver, kidneys and central nervous system.

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

Ingestion	Seek medical attention if irritation or symptoms persist.
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Flex tack™ solution

Revision 2

Revision date 2022-04-14

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use as appropriate: Water spray. Dry chemical. Carbon dioxide (CO₂). Alcohol resistant foam.

5.2. Special hazards arising from the substance or mixture

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5.3. Advice for firefighters

Cool fire exposed containers with waterspray. Self-contained breathing apparatus. Wear protective clothing.

In use may form flammable/explosive vapour-air mixture. Vapours are heavier than air. Vapour may travel considerable distance to source of ignition and flash back. Risk of explosion if heated under confinement. Burning produces irritating, toxic and obnoxious fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the working area. Wear suitable protective equipment. Eliminate all sources of ignition. Evacuate personnel to a safe area.

6.2. Environmental precautions

Do not allow product to enter drains. Prevent further spillage if safe. report releases required by. local and national regulations.

6.3. Methods and material for containment and cleaning up

Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

6.4. Reference to other sections

See section [2, 8 & 13] for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep away from sources of ignition - No smoking. Ensure adequate ventilation of the working area. Use explosion proof equipment. Ground/bond container and receiving equipment.

Avoid contact with eyes and skin. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear protective clothing. Wash hands after handling the product.

Do NOT reuse empty containers. S56 - Dispose of this material and its container to hazardous or special waste collection point.

Do not perform these tasks on empty containers: Welding, soldering, gouging, brazing, flame cutting. Exposure is predominantly expected to fumes and gases.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.

7.3. Specific end use(s)

Restricted to professional users.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

exposure limits: Ethyl Acetate - 400 ppm OSHA PEL, 1400 mg/m³ OSHA PEL.

Flex tack™ solution

Revision 2

Revision date 2022-04-14

8.1. Control parameters

exposure limits: Esters, stabilized with glyceroc - 5 mg/m3 OSHA PEL.

8.1.1. Exposure Limit Values

Ethyl acetate	WEL 8-hr limit ppm: 200	WEL 8-hr limit mg/m3: -
	WEL 15 min limit ppm: 400	WEL 15 min limit mg/m3: -
	WEL 8-hr limit mg/m3 total - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 total - respirable dust:

8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Wear chemical protective clothing.
Eye / face protection	Approved safety goggles.
Skin protection - Handprotection	Chemical resistant gloves (PVC).
Respiratory protection	Not normally required. In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless
Odour	Characteristic
Autoignition temperature	Not determined
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available
Freezing Point	No data available
Vapour Flammability	No data available
Upper Explosive Limit	No data available
Lower Explosive Limit	No data available
Odour threshold	No data available
pH	No data available
Fat Solubility	No data available
Partition coefficient	No data available
Vapour pressure	= 9730 Pa
Vapour density	= 3
Relative density	= 0.89 (H2O = 1 @ 20 °C)
Initial boiling point	= 79.7 °C
Flash point	= -4 °C
Evaporation rate	= 4.2
Flammability (solid, gas)	Not applicable.
Soluble in	Not applicable.
Melting point	Not applicable.
Solubility	Slightly soluble in water

9.2. Other information

Flex tack™ solution

Revision 2
Revision date 2022-04-14

9.2. Other information

SADT	No data available
Conductivity	No data available
Surface tension	No data available
Gas group	No data available
VOC (Volatile organic compounds)	No data available
Benzene Content	Not applicable.
Lead content	Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

	No data available.
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10.2. Chemical stability

	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

	Hazardous polymerization is not expected to occur.
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10.4. Conditions to avoid

	Heat, sparks and open flames.
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10.5. Incompatible materials

	Avoid contact with: Acids, Oxidising agents, Alkalis.
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10.6. Hazardous decomposition products

	Carbon oxides, silicon dioxide may be formed in fire conditions.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Harmful by inhalation. Inhalation is irritating to the respiratory tract and may cause damage to the central nervous system. Inhalation may cause nausea and vomiting. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
Skin corrosion/irritation	Prolonged or repeated exposure may cause irritation to skin and mucous membranes.
Serious eye damage/irritation	Eyes: Contact may cause irritation with redness and tearing.
Respiratory or skin sensitisation	May cause irritation to skin in susceptible persons. May cause sensitisation by skin contact.
Germ cell mutagenicity	Some. Mutagenic effects. observed during. Animal testing.
Carcinogenicity	No Significant Hazard.
STOT-single exposure	No data available.
STOT-repeated exposure	No data available.
Aspiration hazard	Based on available data, the classification criteria are not met.

11.1.12. Mixture versus substance information

	ethyl acetate. Oral Rat LD50 = 5620 mg/kg.
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SECTION 12: Ecological information

12.2. Persistence and degradability

	No data is available on this product.
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12.3. Bioaccumulative potential

	Lowest observed effect level.
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Flex tack™ solution

Revision 2

Revision date 2022-04-14

Partition coefficient

Flex tack™ solution No data available

12.4. Mobility in soil

very high mobility in soils.

12.5. Results of PBT and vPvB assessment

Not applicable.

Further information

Ethyl Acetate. Guppy LC50/96h = 230 mg/L/96 hr.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Due to Ignitability, the use of US EPA's hazardous waste code U112 (CAS 141-78-6) may apply for "discarded commercial chemical products" such as unused or spilled Flex tack solution. Consult a qualified person to make this decision.

General information

Dispose of in compliance with all local and national regulations.

Disposal of packaging

Do NOT reuse empty containers.

Do not perform these tasks on empty containers --. Welding, soldering, gouging, brazing, flame cutting. Exposure is predominantly expected to fumes and gases.

SECTION 14: Transport information

Hazard pictograms



14.1. UN number

UN1993

14.2. UN proper shipping name

FLAMMABLE LIQUID, N.O.S. (ethyl acetate, stabilized ester)

14.3. Transport hazard class(es)

ADR/RID	3
Subsidiary risk	-
IMDG	3
Subsidiary risk	-
IATA	3
Subsidiary risk	-

14.4. Packing group

Packing group II

14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

ADR/RID

Flex tack™ solution

Revision 2
Revision date 2022-04-14

ADR/RID

Hazard ID	33
Tunnel Category	(D/E)

IMDG

EmS Code	F-E S-E
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IATA

Packing Instruction (Cargo)	364
Maximum quantity	60 L
Packing Instruction (Passenger)	353
Maximum quantity	5 L

SECTION 15: Regulatory information

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

Regulations	<p>U.S. FEDERAL REGULATIONS: Flex tack (TM) solution CERCLA 103 Reportable Quantity: Releases above this product 5,500 pounds (based on the RQ for Ethyl acetate (141-78-6) of 5000 pounds 80%- 90%.) Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.</p> <p>Clean Water Act - This material is not regulated</p> <p>SARA TITLE III: Hazard Category For Section 311/312: See Section 2</p> <p>Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): none</p> <p>EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.</p> <p>U.S. STATE REGULATIONS</p> <p>California Proposition 65: no chemicals listed</p> <p>INTERNATIONAL REGULATIONS:</p> <p>Canadian Environmental Protection Act: CAS 141-78-6 is listed on the Domestic Substances List (DSL).</p>
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15.2. Chemical safety assessment

	No data is available on this product.
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SECTION 16: Other information

Other information

Revision	This document differs from the previous version in the following areas: 2 - Hazard pictograms.
Text of Hazard Statements in Section 3	EUH066 - Repeated exposure may cause skin dryness or cracking. Flam. Liq. 2: H225 - Highly flammable liquid and vapour. Eye Irrit. 2: H319 - Causes serious eye irritation. STOT SE 3: H336 - May cause drowsiness or dizziness.

Further information

	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information
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Flex tack™ solution

Revision 2

Revision date 2022-04-14

Further information

	relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.
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