SAFETY DATA SHEET

according to Regulation (EU) 2020/878

Flextack™ solution

Revision 3

Revision date 2023-05-08

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	rcarter@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.

Flextack™ solution

2.2. Label elements

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. 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.
Precautionary Statement: Response	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 (CO2), 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
Butanone (Butan-2-one (methyl ethyl ketone))	606-002-00-3	78-93-3	201-159-0		70 - 80%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;

Particle Characteristics

	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

Flextack™ solution

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.

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 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.

Flextack™ solution

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

8.1.1. Exposure Limit Values

Butanone (Butan-2-one (methyl ethyl ketone))	**WEL 8-hr limit ppm:** 200	**WEL 8-hr limit mg/m3:** 600
	WEL 15 min limit ppm: 300	**WEL 15 min limit mg/m3:** 899
	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:** -
Flextack™ solution (Butan-2-one (methyl ethyl ketone))	**WEL 8-hr limit ppm:** 200	**WEL 8-hr limit mg/m3:** 600
	WEL 15 min limit ppm: 300	**WEL 15 min limit mg/m3:** 899
	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

Flextack™ solution

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Yellow/Translucent
Odour	Characteristic
pH	Not relevant
Melting point	≤ -20 °C
Initial boiling point	= 80 °C
Flash point	< 10 °C
Vapour Flammability	No data available
Upper Explosive Limit	= 11.5 %
Lower Explosive Limit	= 1.5 %
Relative Vapour Density	No data available
Density / Relative Density	= 0.7 (H2O = 1 @ 20 °C)
Soluble in	Not applicable.
Partition coefficient (n-octanol/water)	= 0.29 log P oct/wat
Autoignition temperature	< 300 °C
Decomposition temperature	No data available
Viscosity	= 0.71
Oxidising properties	No data available
Flammability (solid, gas)	Not applicable.
Vapour pressure	= 10500 Pa
Fat Solubility	No data available
Solubility	Insoluble in water

9.2. Other information

SADT	No data available
Conductivity	No data available
Surface tension	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization is not expected to occur.

10.4. Conditions to avoid

Heat, sparks and open flames.

10.5. Incompatible materials

Avoid contact with: Acids, Oxidising agents, Alkalis.

10.6. Hazardous decomposition products

Carbon oxides, silicon dioxide may be formed in fire conditions.

SECTION 11: Toxicological information

11.1 Information on hazard classes

Flextack™ solution

Revision 3
Revision date 2023-05-08

11.1 Information on hazard classes

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.

11.1.4. Toxicological Information

Flextack™ solution	**Oral Rat LD50:** 2193	**Dermal Rabbit LD50:** >10

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data is available on this product.

12.3. Bioaccumulative potential

Lowest observed effect level.

12.4. Mobility in soil

very high mobility in soils.

12.5. Results of PBT and vPvB assessment

Not applicable.

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 Flextack 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

Flextack™ solution

Revision 3
Revision date 2023-05-08

Hazard pictograms	
	

14.1. UN number	
	UN1193

14.2. UN proper shipping name	
	METHYL ETHYL KETONE

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	
Hazard ID	33
Tunnel Category	(D/E)

IMDG	
EmS Code	F-E S-D

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	U.S. FEDERAL REGULATIONS: Flextack (TM) solution CERCLA 103 Reportable Quantity: Releases above this product 1000 pounds (based on the RQ for MEK (78-93-3)) of 1000 pounds 80%- 90%. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations. Clean Water Act - This material is not regulated SARA TITLE III: Hazard Category For Section 311/312: See Section 2

Flextack™ solution

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

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

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

U.S. STATE REGULATIONS

California Proposition 65: no chemicals listed

INTERNATIONAL REGULATIONS:

Canadian Environmental Protection Act: CAS 141-78-6 is listed on the Domestic Substances List (DSL).

15.2. Chemical safety assessment

No data is available on this product.

SECTION 16: Other information

Other information

Revision

This document differs from the previous version in the following areas:.
1 - CAS No.
1 - EC No.
1 - Index No.
2 - 2.1. Classification of the substance or mixture.
2 - Hazard pictograms.
8 - 8.1. Control parameters.
9 - 9.1. Information on basic physical and chemical properties (Colour).
9 - 9.1. Information on basic physical and chemical properties (PH).
9 - 9.1. Information on basic physical and chemical properties (Initial boiling point).
9 - 9.1. Information on basic physical and chemical properties (Melting point).
9 - 9.1. Information on basic physical and chemical properties (Flash point).
9 - 9.1. Information on basic physical and chemical properties (Autoignition temperature).
9 - 9.1. Information on basic physical and chemical properties (Explosive properties).
9 - 9.1. Information on basic physical and chemical properties (Vapour pressure).
9 - 9.1. Information on basic physical and chemical properties (Density / Relative Density).
9 - 9.1. Information on basic physical and chemical properties (Viscosity).
9 - 9.1. Information on basic physical and chemical properties (Water solubility).
9 - 9.1. Information on basic physical and chemical properties (Relative Vapour Density).
9 - 9.1. Information on basic physical and chemical properties (Evaporation rate).
9 - 9.1. Information on basic physical and chemical properties (Freezing Point).
9 - 9.1. Information on basic physical and chemical properties (Upper Explosive Limit).
9 - 9.1. Information on basic physical and chemical properties (Lower Explosive Limit).
9 - 9.1. Information on basic physical and chemical properties (Solubility).
9 - 9.1. Information on basic physical and chemical properties (Partition coefficient (n-octanol/water)).
9 - 9.1. Information on basic physical and chemical properties (Odour threshold).
9 - 9.2. Other information (Partition coefficient).
9 - 9.2. Other information (Gas group).
9 - 9.2. Other information (Benzene Content).
9 - 9.2. Other information (Product Subcategory).
9 - 9.2. Other information (Lead content).

Flextack™ solution

Revision 3
Revision date 2023-05-08

Other information

	11 - 11.1.4. Toxicological Information. 11 - 11.1.12. Mixture versus substance information. 12 - 12.1. Toxicity. 12 - Further information. 14 - ADR/RID. 14 - IMDG. 14 - IATA. 16 - Maximum content of VOC.
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 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.