

# SAFETY DATA SHEET

according to Regulation (EU) 2020/878

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# **Multiflex Duplicating Material**

Revision 1

Revision date 2023-05-08

1.2. Relevant identified uses of the substance         Product Use       [SU3] Indus         Description       Foundry mail         1.3. Details of the supplier of the safety data set         Company       Ransom & 3535 Briarfi         Address       3535 Briarfi         Maumee, C       Web         Web       www.ranson         Telephone       +1 (419) 86         Email       SDS@rans         Email address of the competent person       rcarter@ranger         1.4. Emergency telephone number       USA +144         Company       Ransom & 08:00-17:00         SECTION 2: Hazards identification       2.1. Classification of the substance or mixture         2.1.2. Classification of the substance or mixture       Skin Irrit. 2:         1272/2008       While this m         2.2. Label elements       While this m	trial uses: Uses of substances as such or in preparations at industrial sites; terial. heet Randolph eld Boulevard, PO Box 1570 hio 43537 USA n-randolph.com
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1272/2008         2.2. Label elements         While this n         (29 CFR 19)         proper use	
While this n (29 CFR 19 proper use	H315; Eye Irrit. 2: H319;
(29 CFR 19 proper use	
Hazard pictograms	naterial is not considered hazardous under the OSHA Hazard Communication Standard
Signal Word Warning Copyright © 2023 ChemSoft. All rights reserved.	10.1200), this SDS contains valuable information critical to the safe handeling and of the product. This SDS should be retained and made available for employess and users of this product.



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Hazard Statement	Skin Irrit. 2: H315 - Causes skin irritation.
	Eye Irrit. 2: H319 - Causes serious eye irritation.
Precautionary Statement:	Avoid contact with skin and eyes.
Prevention	P264 - Wash thoroughly after handling.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement:	P302+P352 - IF ON SKIN: Wash with plenty of water/ .
Response	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
	P321 - Specific treatment (see on this label).
	P332+P313 - If skin irritation occurs: Get medical advice/attention.
	P337+P313 - If eye irritation persists: Get medical advice/attention.

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
glycerin (Glycerol, mist)		56-81-5	200-289-5		30 - 40%	
aluminum sulfate tech powder		16828-12-9			1 - 10%	Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335; Aquatic Chronic 3: H412;
Sodium hydroxide	011-002-00-6	1310-73-2	215-185-5		1 - 10%	Skin Corr. 1A: H314;

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

•	
Inhalation	Move the exposed person to fresh air.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open.
Skin contact	Wash with soap and water.
Ingestion	Drink 1 to 2 glasses of water. DO NOT INDUCE VOMITING.
4.2. Most important symptoms a	and effects, both acute and delayed
Inhalation	May cause irritation to respiratory system.
Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin.
Ingestion	May cause irritation to mucous membranes.
4.3. Indication of any immediate	medical attention and special treatment needed
Inhalation	Seek medical attention if irritation or symptoms persist.
Eye contact	Seek medical attention if irritation or symptoms persist.
Skin contact	Seek medical attention if irritation or symptoms persist.
Ingestion	Seek medical attention if irritation or symptoms persist.
SECTION 5: Firefighting me	asures

#### 5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.



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5.2. Special hazards arising from	n the substance or mixture
	Burning produces irritating, toxic and obnoxious fumes. Carbon oxides.
5.3. Advice for firefighters	
	Self-contained breathing apparatus. Wear suitable protective clothing.
SECTION 6: Accidental relea	ase measures
6.1. Personal precautions, prote	ctive equipment and emergency procedures
	Wear suitable protective equipment.
6.2. Environmental precautions	
	Avoid release to the environment. Refer to special instructions/Safety data sheets.
6.3. Methods and material for co	ntainment and cleaning up
	Absorb with inert, absorbent material. Transfer to suitable, labelled container.
6.4. Reference to other sections	
	See section for further information.
SECTION 7: Handling and st	torage
7.1. Precautions for safe handlin	g
	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Wash hands after handling the product.
7.2. Conditions for safe storage,	including any incompatibilities
	Do NOT allow to freeze. Keep in a cool, dry, well ventilated area. Keep containers tightly closed.
7.3. Specific end use(s)	
	Foundry material. Restricted to professional users.
SECTION 8: Exposure control	ols/personal protection
8.1. Control parameters	

#### 8.1.1. Exposure Limit Values

glycerin (Glycerol, mist)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 10
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
	WEL 8-hr limit mg/m3 total - inhalable dust: WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 total - inhalable dust: WEL 15 min limit mg/m3 total - respirable dust:
Sodium hydroxide	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m3: - WEL 15 min limit mg/m3: 2
	WEL 8-hr limit mg/m3 total - inhalable dust: WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 total - inhalable dust: WEL 15 min limit mg/m3 total - respirable dust:

#### 8.2. Exposure controls



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#### 8.2. Exposure controls

8.2.1. Appropriate engineering	Ensure adequate ventilation of the working area.
controls	
Eye / face protection	In case of splashing, wear:. Approved safety goggles.
Skin protection -	Wear suitable gloves.
Handprotection	
Respiratory protection	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	Gel
Colour	Blue/Light brown
pH	No data available
Melting point	= 96 °C
Freezing Point	No data available
Initial boiling point	No data available
Flash point	Not applicable.
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable.
Vapour pressure	No data available
Relative Vapour Density	No data available
Density / Relative Density	1.1 (H2O = 1 @ 20 °C)
Fat Solubility	Not applicable.
Partition coefficient	No data available
Autoignition temperature	= 370 °C
Viscosity	No data available
Explosive properties	Not applicable.
Oxidising properties	Not applicable.
Solubility	Soluble in water

### 9.2. Other information

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

### SECTION 10: Stability and reactivity

## 10.1. Reactivity

Not applicable.

#### 10.2. Chemical stability



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10.2. Chemical stability			
	Stable under normal conditions.		
10.3. Possibility of hazardous re	actions		
	Hazardous polymerization does not occure.		
10.4. Conditions to avoid			
	Direct sunlight. Do NOT allow to freeze.		
10.5. Incompatible materials			
	Oxidizer. agents.		
10.6. Hazardous decomposition	products		
	None.		
SECTION 11: Toxicological i	nformation		
11.1 Information on hazard class	ses		
Acute toxicity	Based on available data, the classification criteria are not met.		
Skin corrosion/irritation	May cause irritation to skin.		
Serious eye damage/irritation	May cause irritation to eyes.		
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.		
Germ cell mutagenicity	Based on available data, the classification criteria are not met.		
Carcinogenicity	Based on available data, the classification criteria are not met.		
Reproductive toxicity	Based on available data, the classification criteria are not met.		
STOT-single exposure	Based on available data, the classification criteria are not met.		
STOT-repeated exposure	Based on available data, the classification criteria are not met.		
Aspiration hazard	Based on available data, the classification criteria are not met.		
Repeated or prolonged exposure	May cause irritation to skin.		
11.1.4. Toxicological Information			
glycerin	Inhalation Rat LC50/>570 h: 1	Oral Rat LD50:	12600 mg/kg
SECTION 12: Ecological info	prmation		
12.1. Toxicity			
glycerin	Daphnia EC50/48h: 10000 mg/l	Fish LC50/96h:	10000.0000 mg/l
12.2. Persistence and degradab	ility		
	No data is available on this product.		
12.3. Bioaccumulative potential			
	Does not bioaccumulate.		
Partition coefficient			
	Multiflex Duplicating Material No data available		
12.4. Mobility in soil			
	very high mobility in soils.		
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12.5. Results of PBT and vPvB assessment		
	Not applicable.	
12.7 Other adverse effects		
	Not applicable.	
SECTION 13: Disposal cons	iderations	
13.1. Waste treatment methods		
	Dispose of in compliance with all. local and national regulations.	
Disposal methods		
	Contact a licensed waste disposal company.	
Disposal of packaging		
	Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.	
SECTION 14: Transport information		
14.1. UN number		
	The product is not classified as dangerous for carriage.	
14.2. UN proper shipping name		
	The product is not classified as dangerous for carriage.	
14.3. Transport hazard class(es)		
	The product is not classified as dangerous for carriage.	
14.4. Packing group		
	The product is not classified as dangerous for carriage.	
14.5. Environmental hazards		
	The product is not classified as dangerous for carriage.	
14.6. Special precautions for user		
	The product is not classified as dangerous for carriage.	
14.7 Maritime Transport in bulk a	-	
	The product is not classified as dangerous for carriage.	
Further information		
	The product is not classified as dangerous for carriage.	
SECTION 15: Regulatory information		
15.1. Safety, health and environ	mental regulations/legislation specific for the substance or mixture	
Regulations	U.S. FEDERAL REGULATIONS: Multiflex (TM) duplicating material. CERCLA 103 Reportable Quantity: are not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.	
	SARA TITLE III: Hazard Category For Section 311/312: None - see Section 2	
	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	
	Section 302 Extremely Hazardous Substances (TPQ): None.	



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## 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:.
	2 - 2.1. Classification of the substance or mixture.
	2 - 2.1.2. Classification - EC 1272/2008.
	2 - Hazard pictograms.
	2 - Signal Word.
	2 - Precautionary Statement: Prevention.
	2 - Precautionary Statement: Response.
	12 - 12.1. Toxicity.
	15 - Labelling.
	15 - Hazard Statement.
	15 - Regulations.
Text of Hazard Statements in	Skin Irrit. 2: H315 - Causes skin irritation.
Section 3	Eye Irrit. 2: H319 - Causes serious eye irritation.
	STOT SE 3: H335 - May cause respiratory irritation.
	Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
	Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
	Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.
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.

