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# Safety Data Sheet acc. to OSHA HCS

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Reviewed on 03/20/2020

## 1 Identification

#### · Product identifier

- Trade name: Unbinder
- · Article number: 0144281
- CAS Number:
- 872-50-4 • **EC number:**
- 212-828-1
- · Index number: 606-021-00-7
- · Application of the substance / the mixture Cleaning agent/ Cleaner

## Details of the supplier of the safety data sheet

Manufacturer/Supplier: Trassig Corp.

65 Redding Rd. #874 Georgetown CT 06829 203-659-0456 www.trassig.com info@trassig.com

• Information department: Product Development Department • Emergency telephone number: For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night.

Within USA and Canada: (800) 424-9300 Outside USA and Canada: +1 (703) 527-3887 (Collect Calls Not Accepted)

## 2 Hazard(s) identification

#### · Classification of the substance or mixture



GHS08 Health hazard



H360 May damage fertility or the unborn child.



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

Flam. Liq. 4 H227 Combustible liquid.

#### <sup>.</sup> Label elements

• GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).

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· Signal word Danger

Hazard-determining components of labeling: N-methyl-2-pyrrolidone Hazard statements Combustible liquid. Causes skin irritation. Causes serious eye irritation. May damage fertility or the unborn child. May cause respiratory irritation. Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from flames and hot surfaces. - No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. In case of fire: Use for extinction: CO2, powder or water spray. Store in a well-ventilated place. Keep container tightly closed. In closed containers, there may be a risk of pressure build up due to water contamination (Liberated CO2 gas). Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4)



Fire = 2Reactivity = 0

### • HMIS-ratings (scale 0 - 4)

HEALTH \*2 Health = \*2 FIRE Fire = 22 Reactivity = 0 REACTIVITY 0

Other hazards

Results of PBT and vPvB assessment

- · PBT: Not applicable.
- · vPvB: Not applicable.

## 3 Composition/information on ingredients

Chemical characterization: Substances CAS No. Description

<sup>872-50-4</sup> N-methyl-2-pyrrolidone

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- **EC number:** 212-828-1
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### 4 First-aid measures

#### <sup>.</sup> Description of first aid measures

#### After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. If inhaled, remove victim from the immediate area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

After skin contact:

*Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.* 

<sup>•</sup> After swallowing:

Rinse out mouth and then drink plenty of water. Induce vomiting, only if affected person is fully conscious. Immediately call a doctor.

<sup>•</sup> Information for doctor:

• Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## 5 Fire-fighting measures

- <sup>•</sup> Extinguishing media
- Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray.
- Special hazards arising from the substance or mixture During heating or in case of fire, nitrous gases are produced
- Advice for firefighters
- **Protective equipment:** Wear breathing apparatus

Wear breatning apparatus Wear full protective suit with self-contained breathing apparatus

See section 8

• Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective clothing.

Wear protective equipment. Keep unprotected persons away.

- Environmental precautions: Do not allow product to reach sewage system or bodies of water.
- Methods and material for containment and cleaning up:
- Dispose contaminated material as waste according to item 13. Ensure adequate ventilation

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

- See Section 13 for disposal information.
- Protective Action Criteria for Chemicals

· PAC-1:	
	30 ppm
DAC 2.	
· PAC-2:	
	20 mm
	32 ppm
· PAC-3:	
	190 ppm
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7 Handling and storag	

- · Handling:
- **Precautions for safe handling** Ensure good ventilation/exhaust at the workplace. Open and handle receptacle with care.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Pay attention to the general rules of internal fire prevention.
- · Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles:
- Recommended ideal storage temperature range: 59 77 degrees F. Product should not be stored above 110 degrees F.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: This product is combustible.
- Keep container tightly sealed.
- Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

#### <sup>·</sup> Control parameters

#### Components with limit values that require monitoring at the workplace:

872-50-4 N-methyl-2-pyrrolidone

TLV BEI

WEEL Long-term value: 10 ppm Skin

Ingredients with biological limit values:

872-50-4 N-methyl-2-pyrrolidone

BEI 100 mg/L Medium: urine Time: end of shift Parameter: 5-Hydroxy-N-methyl-2-pyrrolidone

• Additional information: The lists that were valid during the creation were used as basis.

• Exposure controls

- Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Gases fumes and aerosols should not be inhaled.

Breathing equipment:

In case of inadequate ventillation or high vapor concentration, wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator as needed. Observe OSHA regulations for respirator use (29 CFR 1910.134). **Protection of hands:** 



The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

The following glove types are recommended: neoprene, nitrile rubber, PVC or butyl rubber. Thin, disposable latex gloves should be avoided for repeated or long term handling of the material. Recommended thickness of the glove material: 5 - 6 mil Selection of the glove material should be based on the consideration of penetration times, rates of diffusion and the degradation

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• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### <sup>•</sup> Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. • **Eye protection:** 

Tightly sealed goggles

· Body protection: Protective work clothing

9 Physical and chemical propert	ies			
· Information on basic physical and chemical properties · General Information · Appearance:				
Form: Color: Odor: Odor threshold:	Liquid According to product specification Amine-like Not determined.			
· pH-value:	Not determined.			
<ul> <li>Change in condition Melting point/Melting range: Boiling point/Boiling range:</li> </ul>	-24 °C (-75.2 °F) 202 °C (395.6 °F)			
· Flash point:	93 °C (199.4 °F)			
· Flammability (solid, gaseous):	Not applicable.			
· Ignition temperature:	270 °C (518 °F)			
Decomposition temperature:	Not determined.			
· Auto igniting:	Not determined.			
· Danger of explosion:	Not determined.			
<sup>·</sup> Explosion limits: Lower: Upper:	1.3 Vol % 9.5 Vol %			
· Vapor pressure at 20 °C (68 °F):	0.3 hPa (0.2 mm Hg)			
<ul> <li>Density at 20 °C (68 °F):</li> <li>Relative density</li> <li>Vapor density</li> <li>Evaporation rate</li> </ul>	1.04 g/cm³ (8.6788 lbs/gal) Not determined. Not determined. Not determined.			
<ul> <li>Solubility in / Miscibility with Water:</li> </ul>	Fully miscible.			
· Partition coefficient (n-octanol/water,	): Not determined.			
<ul> <li>Viscosity: Dynamic at 20 °C (68 °F): Kinematic: Organic solvents: VOC content:</li> </ul>	1.65 mPas Not determined. 100.0 % 100.00 % 1,040.0 g/l / 8.68 lb/gal			

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0.0 % No further relevant information available.
rmation available. ditions to be avoided: No decomposition if used according to specifications relevant information available. acids, alkalis, metals and oxidizing agents. oducts:
n
ffects
ant for classification:
ucous membranes. cts known. <b>nation:</b>
r Research on Cancer)
gram)
y & Health Administration)
vant information available. No further relevant information available. <b>stems:</b> further relevant information available. nt information available. <b>tion:</b> ss 1 (Assessment by list): slightly hazardous for water <b>essment</b>

• Other adverse effects No further relevant information available.

## 13 Disposal considerations

<sup>·</sup> Waste treatment methods

· Recommendation: Product should be disposed of in accordance with local regulations.

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- Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information	
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void Void
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void Void
<ul> <li>Transport hazard class(es)</li> </ul>	Void
· DOT, ADR, ADN, IMDG, IATA · Class	Void
· Packing group · DOT, ADR, IMDG, IATA	Void Void
· Environmental hazards: · Marine pollutant:	No
<ul> <li>Special precautions for user</li> </ul>	Not applicable.
<ul> <li>Transport in bulk according to Annex II o MARPOL73/78 and the IBC Code</li> </ul>	f Not applicable.
UN "Model Regulation":	Void

## 15 Regulatory information

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

<sup>.</sup> Sara

Section 355 (extremely hazardous substances):	
Substance is not listed.	
Section 313 (Specific toxic chemical listings):	
Substance is listed.	
TSCA (Toxic Substances Control Act):	
	ACTIVE
· Hazardous Air Pollutants	
Substance is not listed.	

· Proposition 65

Chemicals known to cause cancer:
 Substance is not listed.
 Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

• Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

Chemicals known to cause developmental toxicity:

Substance is listed.

### · Cancerogenity categories

• EPA (Environmental Protection Agency)

Substance is not listed.

• TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

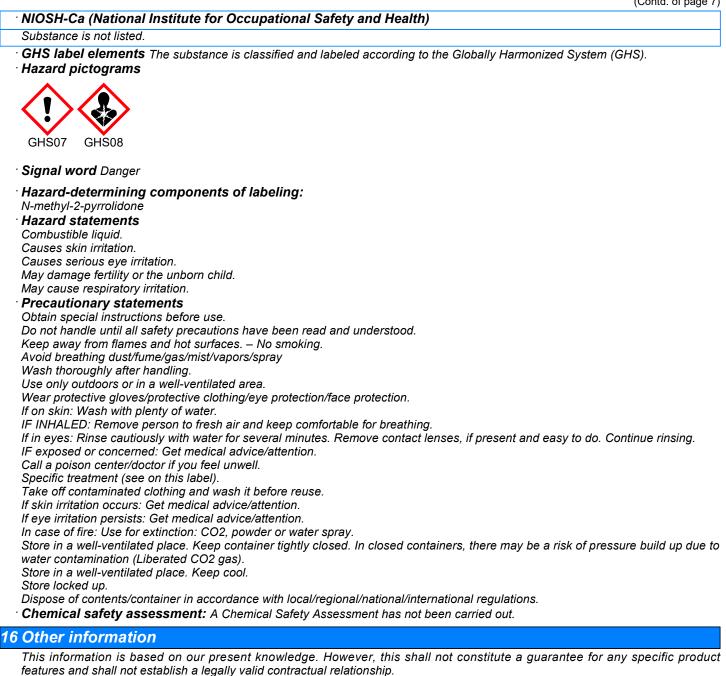
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- · Department issuing SDS: Product Development Department
- · Contact: Product Development Department
- Date of preparation / last revision 03/20/2020 / -

#### Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

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NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent D50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPVB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 4: Flammable liquids – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Repr. 1B: Reproductive toxicity – Category 1B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Reviewed on 03/20/2020

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