

# SAFETY DATA SHEET

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# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product code 8493064T

Product name 849306 Orange

Product category Avery Dennison 4930 Series Screen Ink

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

Recommended use Printing operations

1.3 Details of the supplier of the safety data sheet

UNITED STATES
UNITED KINGDOM
Nazdar Company
Nazdar Limited
8501 Hedge Lane Terrace
Shawnee, KS 66227
Barton Road
Heaton Mersey

Tel: +001-913-422-1888 Stockport, England SK4 3EG
Tel: +001-800-677-4657 Tel: +44 161 442 2111

Fax: +001-913-422-2294

www.nazdar.com

For further information, please contact

Contact person Regulatory Compliance: Tel: +001-913-422-1888 (ext 2305)

E-mail address regcomp@nazdar.com

1.4 Emergency telephone number

USA: Chemtrec: +001-800-424-9300

Outside USA: Chemtrec: +001-703-527-3887

24 Hour Emergency Phone Number

## **Section 2: HAZARDS IDENTIFICATION**

## 2.1 Classification of the substance or mixture

According to Regulation (EC) No 1272/2008

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Serious eye damage/eye irritation	Category 1 - (H318)
Specific target organ toxicity (single exposure)	Category 3 - (H336)
Chronic aquatic toxicity	Category 3 - (H412)

#### 2.2 Label elements



Signal Word Danger

#### **Hazard Statements**

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H318 - Causes serious eye damage

H332 - Harmful if inhaled

H336 - May cause drowsiness or dizziness

H412 - Harmful to aquatic life with long lasting effects

EUH208 - May produce an allergic reaction

#### **Precautionary Statements**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

#### 2.3 Other Hazards

Other Hazards Harmful to aquatic life.
General Hazards No information available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

Component	EC No.	CAS-No	Weight %	Classification according to	REACH No.	Note
				Regulation (EC) No.		
				1272/2008 [CLP]		
Ethylene glycol monobutyl ether acetate	203-933-3	112-07-2	30 - 60	Acute Tox. 4 (H312)	01-2119475112-47-	1
				Acute Tox. 4 (H332)	XXXX	
Butyrolactone	202-509-5	96-48-0	10 - 30	Acute Tox. 4 (H302)	01-2119471839-21-	1
				Eye Dam. 1 (H318)	XXXX	
				STOT SE 3 (H336)		
Acrylic polymer	-	TRADE	< 1	Acute Tox. 4 (H302)	No data available	
		SECRET		Skin Sens. 1 (H317)		
Bis(1,2,2,6,6-pentamethyl-4-piperidyl)	255-437-1	41556-26-7	< 0.5	Skin Sens. 1 (H317)	No data available	
sebacate				Aquatic Acute 1 (H400)		
				Aquatic Chronic 1 (H410)		

Note

REACH No: Registration number(s) may not be provided because substance(s) are exempted or not yet required to be registered under REACH 1. Substance with a Community workplace exposure limit

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

## **Section 4: FIRST AID MEASURES**

## 4.1 Description of first aid measures

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

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Get medical attention if irritation develops and

persists.

**Skin Contact** Wash off immediately with soap and plenty of water for at least 15 minutes. Remove

contaminated clothing. If irritation (redness, rash, blistering) develops, get medical attention.

**Inhalation** Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or

stopped, administer artificial respiration. Get medical attention immediately.

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately. Never give

anything by mouth to an unconscious person.

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

None under normal use conditions.

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

Notes to Physician Treat symptomatically.

## **Section 5: FIRE FIGHTING MEASURES**

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## 5.1 Extinguishing media

#### Suitable Extinguishing Media

Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## **Unsuitable Extinguishing Media**

No information available.

#### 5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. May emit toxic fumes under fire conditions.

## 5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers / tanks with water spray. Sealed containers may rupture when heated.

## **Section 6: ACCIDENTAL RELEASE MEASURES**

## 6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Ventilate the area. Avoid contact with eyes, skin and clothing. Avoid breathing dust or vapor. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

## 6.2 Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways. Local authorities should be advised if significant spillages cannot be contained.

## 6.3 Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use clean non-sparking tools to collect absorbed material.

#### 6.4 Reference to other sections

See Section 12 for more information.

## **Section 7: HANDLING AND STORAGE**

#### 7.1 Precautions for safe handling

Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Ensure adequate ventilation.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep container closed when not in use. Keep out of the reach of children.

#### 7.3 Specific end use(s)

Exposure scenario

No information available.

**Risk Management Methods** 

The information required is contained in this Safety Data Sheet.

(RMM)

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

## **Exposure limits**

Component	The United Kingdom
Ethylene glycol monobutyl ether acetate	STEL: 50 ppm
112-07-2	STEL: 332 mg/m <sup>3</sup>
	TWA: 20 ppm
	TWA: 133 mg/m <sup>3</sup>
	Skin
Component	France

Ethylene glycol monobutyl ether acetate	TWA/VME: 10 ppm indicative limit
112-07-2	TWA/VME: 66.5 mg/m3 indicative limit
	STEL/VLCT: 50 ppm restrictive limit
	STEL/VLCT: 333 mg/m³ restrictive limit
	Skin
Component	Germany
Ethylene glycol monobutyl ether acetate	TWA/MAK: 10 ppm
112-07-2	TWA/MAK: 10 ppm TWA/MAK: 66 mg/m <sup>3</sup>
112-07-2	
	TWA/AGW: 10 ppm
	TWA/AGW: 65 mg/m <sup>3</sup>
	Peak: 20 ppm
	Peak: 132 mg/m³
	Skin
Butyrolactone	Skin
96-48-0	
Component	Spain
Ethylene glycol monobutyl ether acetate	TWA/VLA-ED: 20 ppm
112-07-2	TWA/VLA-ED: 133 mg/m <sup>3</sup>
	STEL/VLA-EC: 50 ppm
	STEL/VLA-EC: 333 mg/m <sup>3</sup>
	Skin
Component	Italy
Component  Thylene glycol manchytyl ether costate	
Ethylene glycol monobutyl ether acetate	TWA: 20 ppm
112-07-2	TWA: 133 mg/m³
	STEL: 50 ppm
	STEL: 333 mg/m <sup>3</sup>
	Skin
Component	Portugal
Ethylene glycol monobutyl ether acetate	TWA/VLE-MP: 20 ppm
112-07-2	TWA/VLE-MP: 133 mg/m <sup>3</sup>
	STEL/VLE-CD: 50 ppm
	STEL/VLE-CD: 333 mg/m <sup>3</sup>
	Skin
Component	
Component	The Netherlands
Ethylene glycol monobutyl ether acetate	TWA: 135 mg/m <sup>3</sup>
112-07-2	STEL: 333 mg/m <sup>3</sup>
	Skin
Component	Finland
Ethylene glycol monobutyl ether acetate	TWA: 20 ppm
112-07-2	TWA: 130 mg/m <sup>3</sup>
	STEL: 50 ppm
	STEL: 50 ppm STEL: 330 mg/m³
	STEL: 330 mg/m <sup>3</sup>
Butvrolactone	STEL: 330 mg/m³ Skin
Butyrolactone	STEL: 330 mg/m³ Skin TWA: 50 ppm
Butyrolactone 96-48-0	STEL: 330 mg/m³ Skin TWA: 50 ppm TWA: 14 mg/m³
	STEL: 330 mg/m³ Skin TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm
	STEL: 330 mg/m³ Skin TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm STEL: 70 mg/m³
96-48-0	STEL: 330 mg/m³ Skin  TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm STEL: 70 mg/m³ Skin
96-48-0  Component	STEL: 330 mg/m³ Skin  TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm STEL: 70 mg/m³ Skin  Denmark
96-48-0  Component  Ethylene glycol monobutyl ether acetate	STEL: 330 mg/m³ Skin  TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm STEL: 70 mg/m³ Skin  Denmark  TWA: 20 ppm
96-48-0  Component	STEL: 330 mg/m³ Skin  TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm STEL: 70 mg/m³ Skin  Denmark  TWA: 20 ppm TWA: 134 mg/m³
96-48-0  Component  Ethylene glycol monobutyl ether acetate	STEL: 330 mg/m³ Skin  TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm STEL: 70 mg/m³ Skin  Denmark  TWA: 20 ppm TWA: 134 mg/m³ Skin
96-48-0  Component  Ethylene glycol monobutyl ether acetate 112-07-2  Component	STEL: 330 mg/m³ Skin  TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm STEL: 70 mg/m³ Skin  Denmark  TWA: 20 ppm TWA: 134 mg/m³
96-48-0  Component  Ethylene glycol monobutyl ether acetate 112-07-2	STEL: 330 mg/m³ Skin  TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm STEL: 70 mg/m³ Skin  Denmark  TWA: 20 ppm TWA: 134 mg/m³ Skin
96-48-0  Component  Ethylene glycol monobutyl ether acetate 112-07-2  Component	STEL: 330 mg/m³ Skin  TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm STEL: 70 mg/m³ Skin  Denmark  TWA: 20 ppm TWA: 134 mg/m³ Skin  Austria
Component Ethylene glycol monobutyl ether acetate 112-07-2 Component Ethylene glycol monobutyl ether acetate	STEL: 330 mg/m³ Skin  TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm STEL: 70 mg/m³ Skin  Denmark  TWA: 20 ppm TWA: 134 mg/m³ Skin  Austria  STEL/KZW: 40 ppm
Component Ethylene glycol monobutyl ether acetate 112-07-2 Component Ethylene glycol monobutyl ether acetate	STEL: 330 mg/m³ Skin  TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm STEL: 70 mg/m³ Skin  Denmark  TWA: 20 ppm TWA: 134 mg/m³ Skin  Austria  STEL/KZW: 40 ppm STEL/KZW: 270 mg/m³
Component Ethylene glycol monobutyl ether acetate 112-07-2 Component Ethylene glycol monobutyl ether acetate	STEL: 330 mg/m³ Skin  TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm STEL: 70 mg/m³ Skin  Denmark  TWA: 20 ppm TWA: 134 mg/m³ Skin  Austria  STEL/KZW: 40 ppm STEL/KZW: 270 mg/m³ TWA/TMW: 20 ppm TWA/TMW: 133 mg/m³
Component Ethylene glycol monobutyl ether acetate 112-07-2 Component Ethylene glycol monobutyl ether acetate 112-07-2	STEL: 330 mg/m³ Skin  TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm STEL: 70 mg/m³ Skin  Denmark  TWA: 20 ppm TWA: 134 mg/m³ Skin  Austria  STEL/KZW: 40 ppm STEL/KZW: 270 mg/m³ TWA/TMW: 20 ppm TWA/TMW: 133 mg/m³ Skin
Component Ethylene glycol monobutyl ether acetate 112-07-2 Component Ethylene glycol monobutyl ether acetate 112-07-2 Component Component	STEL: 330 mg/m³ Skin  TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm STEL: 70 mg/m³ Skin  Denmark  TWA: 20 ppm TWA: 134 mg/m³ Skin  Austria  STEL/KZW: 40 ppm STEL/KZW: 270 mg/m³ TWA/TMW: 20 ppm TWA/TMW: 133 mg/m³ Skin  Switzerland
Component Ethylene glycol monobutyl ether acetate 112-07-2 Component Ethylene glycol monobutyl ether acetate 112-07-2 Component Ethylene glycol monobutyl ether acetate 112-07-2 Component Ethylene glycol monobutyl ether acetate	STEL: 330 mg/m³ Skin  TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm STEL: 70 mg/m³ Skin  Denmark  TWA: 20 ppm TWA: 134 mg/m³ Skin  Austria  STEL/KZW: 40 ppm STEL/KZW: 270 mg/m³ TWA/TMW: 20 ppm TWA/TMW: 133 mg/m³ Skin  Switzerland TWA/MAK: 10 ppm aerosol, vapour
Component Ethylene glycol monobutyl ether acetate 112-07-2 Component Ethylene glycol monobutyl ether acetate 112-07-2 Component Component	STEL: 330 mg/m³ Skin  TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm STEL: 70 mg/m³ Skin  Denmark  TWA: 20 ppm TWA: 134 mg/m³ Skin  Austria  STEL/KZW: 40 ppm STEL/KZW: 270 mg/m³ TWA/TMW: 20 ppm TWA/TMW: 133 mg/m³ Skin  Switzerland  TWA/MAK: 10 ppm aerosol, vapour TWA/MAK: 66 mg/m³ aerosol, vapour
Component Ethylene glycol monobutyl ether acetate 112-07-2 Component Ethylene glycol monobutyl ether acetate 112-07-2 Component Ethylene glycol monobutyl ether acetate 112-07-2 Component Ethylene glycol monobutyl ether acetate	STEL: 330 mg/m³ Skin  TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm STEL: 70 mg/m³ Skin  Denmark  TWA: 20 ppm TWA: 134 mg/m³ Skin  Austria  STEL/KZW: 40 ppm STEL/KZW: 270 mg/m³ TWA/TMW: 20 ppm TWA/TMW: 133 mg/m³ Skin  Switzerland  TWA/MAK: 10 ppm aerosol, vapour TWA/MAK: 66 mg/m³ aerosol, vapour STEL/KZW: 20 ppm aerosol, vapour
Component Ethylene glycol monobutyl ether acetate 112-07-2 Component Ethylene glycol monobutyl ether acetate 112-07-2 Component Ethylene glycol monobutyl ether acetate 112-07-2 Component Ethylene glycol monobutyl ether acetate	STEL: 330 mg/m³ Skin  TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm STEL: 70 mg/m³ Skin  Denmark  TWA: 20 ppm TWA: 134 mg/m³ Skin  Austria  STEL/KZW: 40 ppm STEL/KZW: 270 mg/m³ TWA/TMW: 20 ppm TWA/TMW: 133 mg/m³ Skin  Switzerland  TWA/MAK: 10 ppm aerosol, vapour TWA/MAK: 66 mg/m³ aerosol, vapour STEL/KZW: 20 ppm aerosol, vapour STEL/KZW: 20 ppm aerosol, vapour STEL/KZW: 20 ppm aerosol, vapour
Component Ethylene glycol monobutyl ether acetate 112-07-2	STEL: 330 mg/m³ Skin  TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm STEL: 70 mg/m³ Skin  Denmark  TWA: 20 ppm TWA: 134 mg/m³ Skin  Austria  STEL/KZW: 40 ppm STEL/KZW: 270 mg/m³ TWA/TMW: 20 ppm TWA/TMW: 133 mg/m³ Skin  Switzerland  TWA/MAK: 10 ppm aerosol, vapour TWA/MAK: 66 mg/m³ aerosol, vapour STEL/KZW: 20 ppm aerosol, vapour STEL/KZW: 20 ppm aerosol, vapour STEL/KZW: 20 ppm aerosol, vapour STEL/KZW: 2132 mg/m³ aerosol, vapour STEL/KZW: 132 mg/m³ aerosol, vapour
Component  Ethylene glycol monobutyl ether acetate 112-07-2	STEL: 330 mg/m³ Skin  TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm STEL: 70 mg/m³ Skin  Denmark  TWA: 20 ppm TWA: 134 mg/m³ Skin  Austria  STEL/KZW: 40 ppm STEL/KZW: 270 mg/m³ TWA/TMW: 20 ppm TWA/TMW: 133 mg/m³ Skin  Switzerland  TWA/MAK: 10 ppm aerosol, vapour TWA/MAK: 66 mg/m³ aerosol, vapour STEL/KZW: 20 ppm aerosol, vapour STEL/KZW: 132 mg/m³ aerosol, vapour STEL/KZW: 132 mg/m³ aerosol, vapour SKin  Poland
Component Ethylene glycol monobutyl ether acetate 112-07-2	STEL: 330 mg/m³ Skin  TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm STEL: 70 mg/m³ Skin  Denmark  TWA: 20 ppm TWA: 134 mg/m³ Skin  Austria  STEL/KZW: 40 ppm STEL/KZW: 270 mg/m³ TWA/TMW: 20 ppm TWA/TMW: 20 ppm TWA/TMW: 20 ppm TWA/TMW: 133 mg/m³ Skin  Switzerland  TWA/MAK: 10 ppm aerosol, vapour TWA/MAK: 466 mg/m³ aerosol, vapour STEL/KZW: 20 ppm aerosol, vapour STEL/KZW: 132 mg/m³ aerosol, vapour STEL/KZW: 132 mg/m³ aerosol, vapour SKin  Poland TWA/NDS: 100 mg/m³
Component Ethylene glycol monobutyl ether acetate 112-07-2 Component	STEL: 330 mg/m³ Skin  TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm STEL: 70 mg/m³ Skin  Denmark  TWA: 20 ppm TWA: 134 mg/m³ Skin  Austria  STEL/KZW: 40 ppm STEL/KZW: 270 mg/m³ TWA/TMW: 20 ppm TWA/TMW: 20 ppm TWA/TMW: 20 ppm TWA/TMW: 133 mg/m³ Skin  Switzerland  TWA/MAK: 10 ppm aerosol, vapour TWA/MAK: 466 mg/m³ aerosol, vapour STEL/KZW: 20 ppm aerosol, vapour STEL/KZW: 132 mg/m³ aerosol, vapour STEL/KZW: 132 mg/m³ aerosol, vapour SKin  Poland TWA/NDS: 100 mg/m³
Component  Ethylene glycol monobutyl ether acetate 112-07-2  Component  Ethylene glycol monobutyl ether acetate 112-07-2	STEL: 330 mg/m³ Skin  TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm STEL: 70 mg/m³ Skin  Denmark  TWA: 20 ppm TWA: 134 mg/m³ Skin  Austria  STEL/KZW: 40 ppm STEL/KZW: 270 mg/m³ TWA/TMW: 20 ppm TWA/TMW: 20 ppm TWA/TMW: 133 mg/m³ Skin  Switzerland  TWA/MAK: 10 ppm aerosol, vapour TWA/MAK: 66 mg/m³ aerosol, vapour STEL/KZW: 20 ppm aerosol, vapour STEL/KZW: 20 ppm aerosol, vapour STEL/KZW: 132 mg/m³ aerosol, vapour STEL/KZW: 130 mg/m³ STEL/KZW: 132 mg/m³ aerosol, vapour STEL/KZW: 132 mg/m³ aerosol, vapour STEL/KZW: 132 mg/m³ aerosol, vapour SKin  Poland  TWA/NDS: 100 mg/m³ STEL/NDSCh: 300 mg/m³
Component  Ethylene glycol monobutyl ether acetate 112-07-2  Component  Ethylene glycol monobutyl ether acetate	STEL: 330 mg/m³ Skin  TWA: 50 ppm TWA: 14 mg/m³ STEL: 250 ppm STEL: 70 mg/m³ Skin  Denmark  TWA: 20 ppm TWA: 134 mg/m³ Skin  Austria  STEL/KZW: 40 ppm STEL/KZW: 270 mg/m³ TWA/TMW: 20 ppm TWA/TMW: 20 ppm TWA/TMW: 20 ppm TWA/TMW: 133 mg/m³ Skin  Switzerland  TWA/MAK: 10 ppm aerosol, vapour TWA/MAK: 466 mg/m³ aerosol, vapour STEL/KZW: 20 ppm aerosol, vapour STEL/KZW: 132 mg/m³ aerosol, vapour STEL/KZW: 132 mg/m³ aerosol, vapour SKin  Poland TWA/NDS: 100 mg/m³

112-07-2	TWA: 65 mg/m³ Skin	
Component	Ireland	
Ethylene glycol monobutyl ether acetate 112-07-2	TWA: 20 ppm TWA: 133 mg/m³ STEL: 50 ppm STEL: 333 mg/m³ Skin	

Component	Australia TWA
Ethylene glycol monobutyl ether acetate	TWA: 20 ppm
112-07-2	TWA: 133 mg/m <sup>3</sup>
Component	Australia STEL
Ethylene glycol monobutyl ether acetate	STEL: 50 ppm
112-07-2	STEL: 333 mg/m <sup>3</sup>

**Derived No Effect Level (DNEL)** 

Component	DNEL - Dermal	DNEL - Inhalation
	(Workers)	(Workers)
Ethylene glycol monobutyl ether acetate	169 mg/kg	133 mg/m <sup>3</sup>
112-07-2	(Systemic long term)	(Systemic long term)
	120 mg/kg	333 mg/m <sup>3</sup>
	(Systemic acute/short term)	(Local acute/short term)
Butyrolactone	19 mg/kg	130 mg/m <sup>3</sup>
96-48-0	(Systemic long term)	(Systemic long term)
	, ,	958 mg/m <sup>3</sup>
		(Systemic acute/short term)

**Predicted No Effect Concentration** (PNEC)

No information available.

# 8.2 Exposure controls

**Engineering Measures** 

Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Users are advised to consider national Occupational Exposure Limits or other equivalent values. In case of insufficient ventilation, wear suitable respiratory equipment.

# Personal protective equipment

**Eye/Face Protection** 

Wear safety glasses with side shields (or goggles). If splashes are likely to occur:. Wear suitable face shield. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye Protection** 

Safety glasses with side-shields. Goggles. Face-shield. Avoid contact with eyes. Ensure that eyewash stations and safety showers are close to the workstation location.

**Skin Protection** 

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Hand Protection** 

Chemical resistant protective gloves.

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding >480 minutes of permeation time): eg. nitrile rubber (0.4 mm), chloroprene

rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers. Taking into account the varying conditions, the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time

determined through testing.

Due to different glove types, the manufacturer's directions for use should be observed. Replace gloves immediately when torn or any change in appearance is noticed such as dimension, color, flexibility.

**Respiratory Protection** 

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Wash hands before

eating, drinking or smoking. Wash contaminated clothing before reuse. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of

equipment, work area and clothing is recommended.

Environmental exposure controls No information available.

# **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties

Physical State Liquid Appearance Colored Liquid

Odor Characteristic Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH No data available
Melting Point / Freezing Point No data available

**Boiling Point / Boiling Range**  $> 149 \, ^{\circ}\text{C} \, / \, 300 \, ^{\circ}\text{F}$ 

Flash Point 71 °C / 160 °F Tag closed cup

Evaporation rate No data available

Flammability Limit in Air

Upper flammability limit
Lower flammability limit
Vapor Pressure
Vapor Density

No data available

Specific Gravity 1.05

Water Solubility
Solubility in other solvents
Partition coefficient: n-octanol/water
Autoignition Temperature
Decomposition temperature
No data available

Explosive Properties No data available Oxidizing Properties No data available

9.2 Other information

Softening Point No data available

## **Section 10: STABILITY AND REACTIVITY**

#### 10.1 Reactivity

No information available.

## 10.2 Chemical Stability

Stable under normal conditions.

#### 10.3 Possibility of Hazardous Reactions

None under normal processing.

#### 10.4 Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

### 10.5 Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

#### 10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors. Carbon dioxide (CO2). Carbon monoxide.

## **Section 11: TOXICOLOGICAL INFORMATION**

## 11.1 Information on toxicological effects

## **Acute Toxicity**

Inhalation Specific test data for the substance or mixture is not available. Harmful if inhaled. (based on

components).

Eye ContactSpecific test data for the substance or mixture is not available.Skin ContactSpecific test data for the substance or mixture is not available.IngestionSpecific test data for the substance or mixture is not available.

**Unknown Acute Toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity.

## The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 2,039.00 mg/kg
ATEmix (dermal) 4,073.00 mg/kg
ATEmix (inhalation-dust/mist) 4.10 mg/L
ATEmix (inhalation-vapor) 30.00 mg/L

#### Unknown Acute Toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity.

- $0\ \%$  of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Component	Oral LD50
Ethylene glycol monobutyl ether acetate	= 2400 mg/kg ( Rat )
112-07-2	
Butyrolactone	= 1540 mg/kg ( Rat )
96-48-0	
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	= 2615 mg/kg ( Rat )
41556-26-7	

Component	Dermal LD50
Ethylene glycol monobutyl ether acetate	= 1500 mg/kg (Rabbit)
112-07-2	

Inhalation LC50
> 400 ppm (Rat) 4 h
5400 ( 2 ( B ) ) 4
> 5100 mg/m³(Rat ) 4 h

**Skin corrosion/irritation** Specific test data for the substance or mixture is not available.

**Eye damage/irritation** Specific test data for the substance or mixture is not available. Causes serious eye

damage. (based on components).

SensitizationSpecific test data for the substance or mixture is not available.Mutagenic EffectsSpecific test data for the substance or mixture is not available.Carcinogenic effectsSpecific test data for the substance or mixture is not available.Reproductive EffectsSpecific test data for the substance or mixture is not available.

STOT - single exposure Specific test data for the substance or mixture is not available. May cause drowsiness or

dizziness. (based on components).

**STOT - repeated exposure**Aspiration hazard
Specific test data for the substance or mixture is not available.
Specific test data for the substance or mixture is not available.

## Section 12: ECOLOGICAL INFORMATION

## 12.1 Toxicity

Specific test data for the substance or mixture is not available. Harmful to aquatic life with long lasting effects. (based on

components).

## **Unknown Aquatic Toxicity**

0.5 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Component	Algae/aquatic plants
Ethylene glycol monobutyl ether acetate	72h EC50 Desmodesmus subspicatus: > 500 mg/L
112-07-2	
Butyrolactone	96h EC50 Desmodesmus subspicatus: = 79 mg/L
96-48-0	72h EC50 Desmodesmus subspicatus: = 360 mg/L

Component	Fish
Ethylene glycol monobutyl ether acetate	96h LC50 Oncorhynchus mykiss: 20 - 40 mg/L
112-07-2	
Butyrolactone	96h LC50 Lepomis macrochirus: = 56 mg/L [static]
96-48-0	
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	96h LC50 Lepomis macrochirus: = 0.97 mg/L (static)
41556-26-7	

Component	Crustacea
Ethylene glycol monobutyl ether acetate	48h EC50 Daphnia magna: = 37 mg/L
112-07-2	
Butyrolactone	48h EC50 Daphnia magna Straus: > 500 mg/L
96-48-0	

## 12.2 Persistence and degradability

No information available.

#### 12.3 Bioaccumulative potential

No information available.

Component	Partition coefficient
Ethylene glycol monobutyl ether acetate 112-07-2	1.51
Butyrolactone 96-48-0	-0.566
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate 41556-26-7	0.37

## 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

## 12.6 Other adverse effects.

No information available.

## **Section 13: DISPOSAL CONSIDERATIONS**

## 13.1 Waste treatment methods

Waste from residues/unused

products

**Contaminated Packaging** 

Contain and dispose of waste according to local regulations.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

## **Section 14: TRANSPORT INFORMATION**

Note: This information is not intended to convey all specific transportation requirements relating to

this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation

information can be found in the specific regulations for your mode of transportation. It is the responsibility of the transporting organization to follow all applicable laws, regulations and

rules relating to the transportation of the material.

ADR Not Regulated 14.2 Proper Shipping Name Printing Ink

ICAO / IATA / IMDG / IMONot Regulated14.2 Proper Shipping NamePrinting Ink

## **Section 15: REGULATORY INFORMATION**

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

European Union

#### **International Inventories**

For further information, please contact: Supplier (manufacturer/importer/downstream user/distributor)

#### 15.2 Chemical Safety Assessment

No information available.

## **Section 16: OTHER INFORMATION**

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

## Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H332 - Harmful if inhaled

H336 - May cause drowsiness or dizziness

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

## Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Ceiling Maximum limit value

Revision Date Sep-20-2019

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text.

**End of Safety Data Sheet**