## **SAFETY DATA SHEETS**

# This SDS packet was issued with item: 078933856

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078940260



## SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Issuing Date 25-Apr-2018

Revision date 29-Aug-2020

**Revision Number** 3

1. Identification	
1.1. Product identifier Product Name Active Ingredient	Enulose Lactulose Solution Lactulose
Pure substance/mixture	Mixture
<u>1.2. Relevant identified uses o</u> Uses/ Identified uses	f the substance or mixture and uses advised against Pharmaceutical
Uses advised against	Use only as directed
1.3. Details of the supplier of t	•
Manufacturer	
400 Interpace Parkway Parsippany, NJ. 07054 USA	Teva Corporate Headquarters 5 Bazel Street PO Box 3190 Petah Tikva, Israel
For further information, please c E-mail address	ontactSDS.TevalL@teva.co.il
1.4. Emergency telephone nur Emergency Telephone	nber United States/Canada/Puerto Rico: 1-800-424-9300 (Chemtrec) [24-hrs] International: +1-703-741-5970 (Chemtrec) [24-hours]
2. Hazard(s) identificat	ion

## 2.1. Classification of the substance or mixture

Exempt from requirements - regulated as a medicinal product

#### 2.2. Label elements

Exempt from requirements - regulated as a medicinal product

#### 2.3. Other hazards

None known.

## 3. Composition/information on ingredients

#### 3.1 Substances

### Not applicable

## 3.2 Mixtures

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Lactulose	EEC No. Present	4618-18-2	Proprietary	No data available	No data available
Excipients	-	-	Remainder	-	No data available

## 4. First-aid measures

4.1. Description of first aid measures					
Inhalation	Remove to fresh air. If symptoms persist, call a physician.				
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.				
Skin contact	Wash off immediately with plenty of water. Get medical attention if symptoms occur.				
Ingestion	IF SWALLOWED. Rinse mouth thoroughly with water. Do NOT induce vomiting. Get				
	medical attention if symptoms occur.				
4.2. Most important symptoms and effects, both acute and delayed					
Symptoms	No information available.				
4.3. Indication of any immediate medical attention and special treatment needed					
Note to physicians	Treat symptomatically.				

## 5. Fire-fighting measures

5.1. Extinguishing media	
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO2). Foam. Dry sand. Halons.
Unsuitable extinguishing media	No information available.
5.2. Special hazards arising from th	e substance or mixture
Specific hazards arising from the	Thermal decomposition can lead to release of irritating gases and vapors.
chemical	
5.3. Advice for firefighters	
Special protective equipment for	Firefighters should wear self-contained breathing apparatus and full firefighting turnout
fire-fighters	gear. Use personal protection equipment.

## 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures				
Personal precautions	Avoid contact with skin, eyes or clothing.			
For emergency responders	Use personal protection recommended in Section 8.			
6.2. Environmental precautions				
Environmental precautions	Prevent entry into waterways, sewers, basements or confined areas. Prevent further			
	leakage or spillage if safe to do so.			
6.3. Methods and material for containment and cleaning up				
Methods for containment	No data available.			
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal.			
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.			
6.4. Reference to other sections				
Reference to other sections	See section 8 for more information. See section 13 for more information.			

## 7. Handling and storage

7.1. Precautions for safe handling Advice on safe handling	Avoid contact with skin, eyes or clothing. Handle in accordance with good industrial hygiene and safety practice. Do not breathe vapor or mist. Provide a good standard of controlled ventilation (10 to 15 air changes per hour).	
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage Conditions	Store in accordance with product label.	
<u>7.3. Specific end use(s)</u> Risk Management Methods (RMM)	The information required is contained in this Material Safety Data Sheet.	

## 8. Exposure controls/personal protection

8.1. Control parameters Exposure Limits	Not determined. Mixture.
TEVA OEL	No occupational exposure limit values have been defined by authorities in production Country: Not Determined: Mixture
Derived No Effect Level (DNEL) Predicted No Effect Concentration (PNEC) <u>8.2. Exposure controls</u>	No information available. No information available.
Engineering controls Personal protective equipment	Provide a good standard of controlled ventilation (10 to 15 air changes per hour).
Eye/face protection	Use eye protection appropriate for the task.
Skin and body protection Respiratory protection	Wear suitable protective clothing. Use appropriate respiratory protection.
General hygiene considerations Environmental exposure controls	Handle in accordance with good industrial hygiene and safety practice. No information available.

## 9. Physical and chemical properties

## 9.1. Information on basic physical and chemical propertiesPhysical stateLiquid

Physical state	Liquia Na information available	
Appearance Color	No information available No information available	
Odor		
Odor threshold	No information available. No information available	
Odor threshold	NO INIOMATION AVAILADIE	
Property_	Values	Remarks • Method
pH	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No information available.	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No information available	
Oxidizing properties	No information available	
Partition coefficient n-octanol /wate	er No information available	
(log KOW)		
9.2. Other information		
Softening point	No information available	
Molecular weight	No information available	

VOC Content (%)	No information available	
Liquid Density	No information available	
Bulk density	No information available	

## 10. Stability and reactivity

10.1. Reactivity Reactivity	No information available.		
10.2. Chemical stability			
Stability	Stable under normal conditions.		
10.3. Possibility of hazardous reactions			
Possibility of hazardous reactions	None under normal processing.		
10.4. Conditions to avoid			
Conditions to avoid	Heat, flames and sparks.		
10.5. Incompatible materials			
Incompatible materials	None in particular.		
10.6. Hazardous decomposition products			
Hazardous decomposition products None known based on information supplied.			

## 11. Toxicological information

#### 11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

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Inhalation	No known effects under normal use conditions.
Eye contact	No known effects under normal use conditions.
Skin contact	No known effects under normal use conditions.
Ingestion	No known effects under normal use conditions.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Lactulose	= 18160 mg/kg(Rat)		

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No known effects under normal use conditions.

Serious eye damage/eye irritation	No known effects under normal use conditions.
Respiratory or skin sensitization	No known effects under normal use conditions.
Germ cell mutagenicity	No known effects under normal use conditions.
Carcinogenicity	No known effects under normal use conditions.
Reproductive toxicity	No known effects under normal use conditions.
STOT - single exposure	No known effects under normal use conditions.
STOT - repeated exposure	No known effects under normal use conditions.
Aspiration hazard	No known effects under normal use conditions.

## 12. Ecological information

#### 12.1. Toxicity

Ecotoxicity	No information available.
12.2. Persistence and degradability	_
Persistence and degradability	No information available.
12.3. Bioaccumulative potential	
Bioaccumulation	No information available.

12.4. Mobility in soilNo information available.Mobility in soilNo information available.12.5. Results of PBT and vPvB assessmentNo information available.PBT and vPvB assessmentNo information available.

12.6. Other adverse effectsNo information available.

## 13. Disposal considerations

13.1. Waste treatment methods	
Waste from residues/unused	Dispose of in accordance with local regulations.
products	
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or
	disposal.

## 14. Transport information

#### IMDG

14.1 UN number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Marine pollutant 14.6 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	Not regulated Not regulated Not regulated Not regulated Not applicable No information available
RID14.1UN number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing group14.5Environmental hazards14.6	Not regulated Not regulated Not regulated Not regulated Not applicable
ADR 14.1 UN number 14.2 UN proper shipping name 14.3 Hazard class 14.4 Packing group 14.5 Environmental hazards 14.6	Not regulated Not regulated Not regulated Not regulated Not applicable
IATA 14.1 UN number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6	Not regulated Not regulated Not regulated Not regulated Not applicable

STEL (Short Term Exposure Limit)

Skin designation

#### 15. Regulatory information

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

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### Persistent Organic Pollutants

Not applicable

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

#### International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AICS	Contact supplier for inventory compliance status

#### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

- EINECS/ELINCS European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

- KECL Korean Existing and Evaluated Chemical Substances
- **PICCS** Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### 15.2. Chemical safety assessment

Chemical Safety Report No information available

### 16. Other information

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

#### Legend

SVHC: Substances of Very High Concern for Authorization:				
Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION				
TWA	TWA (time-weighted average)	STEL		
Ceiling	Maximum limit value	*		

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the

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End of Safety Data Sheet