# SAFETY DATA SHEET

LEWATIT S 8227



05715008

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### Identification of the substance or preparation

Product name	:	LEWATIT S 8227
Use of the substance/preparation	:	lon exchange, resins and catalysts
Supplier/Manufacturer	:	LANXESS Deutschland GmbH, Industrial & Environmental Affairs 51369 Leverkusen, Germany, Telephone: +49 214 30 65109 E-mail: infosds@lanxess.com
Emergency telephone number	:	+49 214 30 99300 (Sicherheitszentrale CHEMPARK Leverkusen)

### 2. HAZARDS IDENTIFICATION

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments. See section 11 for more detailed information on health effects and symptoms.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product definition (REACH) : Preparation

copolymer from acrylic acid and diethylene glycol divinylether with carboxylic acid groups in H-form

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting in this section, in accordance with EU or national regulations.

### 4. FIRST AID MEASURES

irritation occurs. See section 11 for more detailed information on health effects and symptoms.

### 5. FIRE-FIGHTING MEASURES

Extinguishing media		
Suitable	:	In case of fire, use water spray (fog), foam, dry chemical or CO <sub>2</sub> .
Not suitable	:	None known.
Special exposure hazards	:	No specific fire or explosion hazard.
		Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Hazardous combustion products	:	Secomposition products may include the following materials: carbon oxides
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	:	No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Put on appropriate personal protective equipment (see section 8). Hazard of slipping on spilt product.
Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Large spill	:	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.
Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

# 7. HANDLING AND STORAGE

Handling :	Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous.			
Storage :	Store between the following temperatures: -20 to 40°C (-4 to 104°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.			
Packaging materials				
Recommended :	Use original container.			
Remarks :	: <b>F</b> ake precautionary measures against electrostatic discharges. Do not allow to dry out.			

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values	t available.			
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.			
<u>Risk management measures</u>				
Occupational exposure cont				
Technical measures	this product contains ingredients with exposure inclosures, local exhaust ventilation or other eng ep worker exposure below any recommended	ineering controls to		
Personal protection measure				
Respiratory protection	se a properly fitted, air-purifying or air-fed respi th an approved standard if a risk assessment in ecessary. Respirator selection must be based of ticipated exposure levels, the hazards of the p prking limits of the selected respirator.	ndicates this is on known or		

LEWATIT S 8227	05715008/1.01
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. After contamination with product change the gloves immediately and
	dispose of them according to relevant national and local regulations <1 hours (breakthrough time): PVC , nitrile rubber , Polychloroprene - CR
Eye protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommended: safety glasses with side-shields
Skin protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Environmental exposure of	controls
Technical measures	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

General information	
Appearance	
Physical state	: Solid. [beads]
Colour	: Yellow. opaque [Light]
Odour	: Odourless.
Important health, safet	y and environmental information
Density	: 1.18 kg/L (20 °C)
Bulk density	: 680 to 760 kg/m <sup>3</sup>
Solubility	: Insoluble in the following materials: cold water

# **10. STABILITY AND REACTIVITY**

Date of issue	:	2009-06-15	Page: 4/6		
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.			
Conditions to avoid	:	Take precautionary measures against static discharges. with strong oxidising agents may cause hazardous reaction			
Possibility of hazardous reactions	:	Inder normal conditions of storage and use, hazardous reactions will not occur.			
Stability		The product is stable.			

### **11. TOXICOLOGICAL INFORMATION**

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	Test
LEWATIT S 8227	LD50 * Oral	Rat	>5000 mg/kg	-	-
*Test results on an analo	gous product				
Irritation/Corrosion					
Skin	: Non-ir	ritating . Tes	t results on an	analogous pro	oduct .
Eyes	: Non-ir	ritating . Tes	t results on an	analogous pro	oduct.

### 12. ECOLOGICAL INFORMATION

AOX

: The product does not contain organically bound halogens which could lead to an AOX value in waste water.

Remarks

: No known significant effects or critical hazards.

### **13. DISPOSAL CONSIDERATIONS**

Methods of disposal
Examine possibilities for re-utilisation. Product residues and uncleaned empty containers should be packaged, sealed, labelled, and disposed of or recycled according to relevant national and local regulations. Where large quantities are concerned, consult the supplier. When uncleaned empty containers are passed on, the recipient must be warned of any possible hazard that may be caused by residues. For disposal within the EC, the appropriate code according to the European Waste List (EWL) should be used. It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the European Waste List (EWL).
Hazardous waste

**Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

14. TRANSPORT INFORMATION							
Regulation	UN number	Proper shipping name	Class	PG	Label	Additional information	
ADR/RID	-	-	-	-	-	Not regulated.	
GGVSE	-	-	-	-	-	Not regulated.	
Date of issue	•	: 2009-06-15				Page: 5/6	

Regulation	UN number	Proper shipping name	Class	PG	Label	Additional information
ADNR	-	-	-	-	-	Not regulated.
IMDG	-	-	-	-	-	Not regulated.
ΙΑΤΑ	-	-	-	-	-	Not regulated.

PG: Packing group

Not dangerous cargo. Avoid temperatures below -20 °C. Keep separated from foodstuffs.

# **15. REGULATORY INFORMATION**

#### EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Industrial applications.

Risk phrases

: This product is not classified according to EU legislation.

### **16. OTHER INFORMATION**

#### **History**

Date of printing	: 2009-06-15
Date of issue	: 2009-06-15
Date of previous issue	: 2008-07-01
Version	: 1.01

**Indicates information that has changed from previously issued version.** 

#### Notice to reader

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance.

# SAFETY DATA SHEET

LEWATIT S 8227



05715008

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### Identification of the substance or preparation

Product name	:	LEWATIT S 8227
Use of the substance/preparation	:	lon exchange, resins and catalysts
Supplier/Manufacturer	:	LANXESS Deutschland GmbH, Industrial & Environmental Affairs 51369 Leverkusen, Germany, Telephone: +49 214 30 65109 E-mail: infosds@lanxess.com
Emergency telephone number	:	+49 214 30 99300 (Sicherheitszentrale CHEMPARK Leverkusen)

### 2. HAZARDS IDENTIFICATION

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments. See section 11 for more detailed information on health effects and symptoms.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product definition (REACH) : Preparation

copolymer from acrylic acid and diethylene glycol divinylether with carboxylic acid groups in H-form

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting in this section, in accordance with EU or national regulations.

### 4. FIRST AID MEASURES

irritation occurs. See section 11 for more detailed information on health effects and symptoms.

### 5. FIRE-FIGHTING MEASURES

Extinguishing media		
Suitable	:	In case of fire, use water spray (fog), foam, dry chemical or CO <sub>2</sub> .
Not suitable	:	None known.
Special exposure hazards	:	No specific fire or explosion hazard.
		Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Hazardous combustion products	:	Secomposition products may include the following materials: carbon oxides
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	:	No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Put on appropriate personal protective equipment (see section 8). Hazard of slipping on spilt product.
Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Large spill	:	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.
Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

# 7. HANDLING AND STORAGE

Handling :	Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous.
Storage :	Store between the following temperatures: -20 to 40°C (-4 to 104°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
Packaging materials	
Recommended :	Use original container.
Remarks :	Ake precautionary measures against electrostatic discharges. Do not allow to dry out.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values	t available.	
Recommended monitoring procedures	this product contains ingredients with exposure orkplace atmosphere or biological monitoring m etermine the effectiveness of the ventilation or of easures and/or the necessity to use respiratory juipment. Reference should be made to Europ 99 for methods for the assessment of exposure nemical agents and national guidance documer e determination of hazardous substances.	hay be required to other control protective ean Standard EN by inhalation to
<u>Risk management measures</u>		
Occupational exposure cont		
Technical measures	this product contains ingredients with exposure inclosures, local exhaust ventilation or other eng ep worker exposure below any recommended	ineering controls to
Personal protection measure		
Respiratory protection	se a properly fitted, air-purifying or air-fed respi th an approved standard if a risk assessment in ecessary. Respirator selection must be based of ticipated exposure levels, the hazards of the p prking limits of the selected respirator.	ndicates this is on known or

LEWATIT S 8227	05715008/1.01
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. After contamination with product change the gloves immediately and
	dispose of them according to relevant national and local regulations <1 hours (breakthrough time): PVC , nitrile rubber , Polychloroprene - CR
Eye protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommended: safety glasses with side-shields
Skin protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Environmental exposure of	controls
Technical measures	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

General information	
Appearance	
Physical state	: Solid. [beads]
Colour	: Yellow. opaque [Light]
Odour	: Odourless.
Important health, safet	y and environmental information
Density	: 1.18 kg/L (20 °C)
Bulk density	: 680 to 760 kg/m <sup>3</sup>
Solubility	: Insoluble in the following materials: cold water

# **10. STABILITY AND REACTIVITY**

Date of issue	:	2009-06-15	Page: 4/6
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.	
Conditions to avoid	:	Take precautionary measures against static discharges. with strong oxidising agents may cause hazardous reaction	
Possibility of hazardous reactions	:	Inder normal conditions of storage and use, hazardous will not occur.	reactions
Stability		The product is stable.	

### **11. TOXICOLOGICAL INFORMATION**

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	Test
LEWATIT S 8227	LD50 * Oral	Rat	>5000 mg/kg	-	-
*Test results on an analo	gous product				
Irritation/Corrosion					
Skin	: Non-ir	ritating . Tes	t results on an	analogous pro	oduct .
Eyes	: Non-ir	ritating . Tes	t results on an	analogous pro	oduct.

### 12. ECOLOGICAL INFORMATION

AOX

: The product does not contain organically bound halogens which could lead to an AOX value in waste water.

Remarks

: No known significant effects or critical hazards.

### **13. DISPOSAL CONSIDERATIONS**

Methods of disposal
Examine possibilities for re-utilisation. Product residues and uncleaned empty containers should be packaged, sealed, labelled, and disposed of or recycled according to relevant national and local regulations. Where large quantities are concerned, consult the supplier. When uncleaned empty containers are passed on, the recipient must be warned of any possible hazard that may be caused by residues. For disposal within the EC, the appropriate code according to the European Waste List (EWL) should be used. It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the European Waste List (EWL).
Hazardous waste

**Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

14. TRANSPORT INFORMATION						
Regulation UN num		Proper shipping name	Class	PG	Label	Additional information
ADR/RID	-	-	-	-	-	Not regulated.
GGVSE	-	-	-	-	-	Not regulated.
Date of issue	•	: 2009-06-15				Page: 5/6

Regulation	UN number	Proper shipping name	Class	PG	Label	Additional information
ADNR	-	-	-	-	-	Not regulated.
IMDG	-	-	-	-	-	Not regulated.
ΙΑΤΑ	-	-	-	-	-	Not regulated.

PG: Packing group

Not dangerous cargo. Avoid temperatures below -20 °C. Keep separated from foodstuffs.

# **15. REGULATORY INFORMATION**

#### EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Industrial applications.

Risk phrases

: This product is not classified according to EU legislation.

### **16. OTHER INFORMATION**

#### **History**

Date of printing	: 2009-06-15
Date of issue	: 2009-06-15
Date of previous issue	: 2008-07-01
Version	: 1.01

**Indicates information that has changed from previously issued version.** 

#### Notice to reader

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance.