SAFETY DATA SHEET



REN®CAST CW 47

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : REN®CAST CW 47

Product code : 00056733

Product description :

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

Product use : Resin for tooling systems

1.3 Details of the supplier of the safety data sheet

Supplier: Huntsman Advanced Materials (Europe)BVBA

Everslaan 45

3078 Everberg / Belgium Tel.: +41 61 299 20 41 Fax: +41 61 299 20 40

e-mail address of person responsible for this SDS

: Global_Product_EHS_AdMat@huntsman.com

1.4 Emergency telephone number

Supplier

Telephone number : EUROPE: +32 35 75 1234

France ORFILA: +33(0)145425959

ASIA: +65 6336-6011 China: +86 20 39377888 Australia: 1800 786 152 New Zealand: 0800 767 437 USA: +1/800/424.9300

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Muta. Cat. 3; R68

R43 R52/53

Human health hazards: Possible risk of irreversible effects. May cause sensitisation by skin contact.

Environmental hazards: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

See Section 16 for the full text of the R phrases or H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard symbol or symbols



Indication of danger : Harmful

Date of issue / Date of revision : 7 September 2011 1/14

RENCAST CW 47 2/14

Date of printing : 7 September 2011 MSDS no. : 00056733

Date of issue : 7 September 2011 Version : 1

SECTION 2: Hazards identification

Risk phrases : R68- Possible risk of irreversible effects.

R43- May cause sensitisation by skin contact.

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

Safety phrases : S36/37- Wear suitable protective clothing and gloves.

Hazardous ingredients : N,N,N',N'-tetraglycidyl-4,4'-diaminodiphenylmethane

1,6-hexanedioldiglycidyl ether

Supplemental label

elements

: Contains epoxy constituents. See information supplied by the manufacturer.

Special packaging requirements

Containers to be fitted with child-resistant

fastenings

: Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification

: Not available.

SECTION 3: Composition/information on ingredients

Substance/mixture : Mixture

			Classification			
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре	
N,N,N',N'-tetraglycidyl- 4,4'-	REACH #: 01- 2119472303-45	13 - 30	Muta. Cat. 3; R68	Skin Sens. 1, H317	[1]	
diaminodiphenylmethane	CAS: 28768-32-3		R43 N; R51/53	Muta. 2, H341 Aquatic Chronic 2, H411		
1,6- hexanedioldiglycidyl	REACH #: 01- 2119463471-41	7 - 13	Xi; R36/38	Skin Irrit. 2, H315	[1]	
ether	CAS: 16096-31-4		R43 R52/53	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412		
			See section 16 for the full text of the R- phrases declared above	See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

RENCAST CW 47 3/14

Date of printing : 7 September 2011 MSDS no. : 00056733

Date of issue : 7 September 2011 Version : 1

SECTION 4: First aid measures

4.1 Description of first aid measures

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower **Eye contact** eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial

respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance

for 48 hours.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before

reuse. Clean shoes thoroughly before reuse.

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air Ingestion and keep at rest in a position comfortable for breathing. If material has been

swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open

airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Wash contaminated clothing thoroughly with water before removing it, or wear

gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact No known significant effects or critical hazards.

Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects

may be delayed following exposure.

Skin contact : May cause sensitisation by skin contact.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eve contact : No specific data. Inhalation : No specific data.

Adverse symptoms may include the following: Skin contact

irritation redness

Ingestion : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. Notes to physician

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : Symptomatic treatment and supportive therapy as indicated. Following severe

exposure the patient should be kept under medical review for at least 48 hours.

Date of issue / Date of revision : 7 September 2011

RENCAST CW 47 4/14

Date of printing : 7 September 2011 MSDS no. : 00056733

Date of issue : 7 September 2011 Version : 1

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

modia

Unsuitable extinguishing

media

: None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides metal oxide/oxides

5.3 Advice for firefighters

Special precautions for fire-fighters

: 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. This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

6.2 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). Water polluting material.

6.3 Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

RENCAST CW 47 5/14

Date of printing : 7 September 2011 MSDS no. : 00056733

Date of issue : 7 September 2011 Version : 1

SECTION 6: Accidental release measures

6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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. Do not reuse container.

Advice on general occupational hygiene

: 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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

: Store between the following temperatures: 2 to 18°C (35.6 to 64.4°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.

5/14

Storage hazard class Huntsman Advanced Materials : Storage class 12, Liquids, not dangerous

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

RENCAST CW 47 6/14

: 00056733 Date of printing : 7 September 2011 MSDS no.

: 7 September 2011 **Date of issue Version** : 1

SECTION 8: Exposure controls/personal protection

procedures

Recommended monitoring: 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.

Derived effect levels

No DELs available.

Predicted effect concentrations

No PECs available.

8.2 Exposure controls

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face 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 or dusts.

Skin protection

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.

Material of gloves for long term application (BTT>480min):

: Ethyl Vinyl Alcohol Laminate (EVAL), butyl rubber

Material of gloves for short term/splash application (10min<BTT<480min): : nitrile rubber

(BTT = Break Through Time)

Use gloves approved to relevant standards e.g. EN 374 (Europe), F739 (US). Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers. Additional information can be found for instance at www.gisbau.de.

Body 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.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

RENCAST CW 47 7/14

Date of printing : 7 September 2011 MSDS no. : 00056733

: 7 September 2011 **Date of issue** Version : 1

SECTION 8: Exposure controls/personal protection

Environmental exposure

controls

: 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. [Viscous liquid.]

Colour : Grey.

Odour Not available. **Odour threshold** Not available. Not available. pН : Not available. Melting point/freezing point Initial boiling point and boiling : >200°C

range

: Closed cup: >100°C Flash point

Evaporation rate Not available. Not available. Flammability (solid, gas) Not applicable. **Burning time Burning rate** Not applicable.

Upper/lower flammability or

explosive limits

: Not available.

Vapour pressure : <0.1 kPa [20°C] : Not available. Vapour density Not available. Relative density

Solubility(ies)

Water solubility

20 deg C Insoluble

Partition coefficient: n-

octanol/water

: Not available.

: Not available. Auto-ignition temperature **Decomposition temperature** : Not available.

Viscosity Dynamic: 700000 to 1000000 mPa-s

: Not available. **Explosive properties** : Not available. **Oxidising properties**

9.2 Other information

: 1.85 g/cm³ [20°C (68°F)] **Density**

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Date of issue / Date of revision : 7 September 2011 7/14

RENCAST CW 47 8/14

Date of printing : 7 September 2011 MSDS no. : 00056733

Date of issue : 7 September 2011 Version : 1

SECTION 10: Stability and reactivity

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials :

strong acids, strong bases, strong oxidising agents

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Endpoint	Species	Result	Exposure
REN®CAST CW 47	LD50 Oral	Rat	>5000 mg/kg	-
N,N,N',N'-tetraglycidyl-4,4'-diaminodiphenylmethane	LC50 Inhalation Vapour	Rat - Male, Female	9110 mg/m3	4 hours
	LD50 Dermal	Rabbit - Male, Female	>3000 mg/kg	-
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
1,6-hexanedioldiglycidyl ether	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat - Male, Female	2189 mg/kg	-
	NOEC Inhalation Vapour	Rat - Male, Female	>0.035 mg/L	4 hours

Irritation/Corrosion

Product/ingredient name	Test	Species	Result
1,6-hexanedioldiglycidyl ether	OECD 405 Acute Eye Irritation/Corrosion	Rabbit	Irritant
	-	Rabbit	Irritant

Conclusion/Summary: Not available.

Skin: 1,6-hexanedioldiglycidyl ether: Irritating to skin.Eyes: 1,6-hexanedioldiglycidyl ether: Irritating to eyes.

Sensitiser

Product/ingredient name	Test	Route of exposure	Species	Result
REN®CAST CW 47 1,6-hexanedioldiglycidyl ether	- OECD 429 Skin Sensitisation: Local Lymph Node Assay	skin skin	Guinea pig Mouse	Sensitising Sensitising

Conclusion/Summary: Not available.

Mutagenicity

Product/ingredient name	Test	Result

RENCAST CW 47 9/14

Date of printing : 7 September 2011 MSDS no. : 00056733

Date of issue : 7 September 2011 Version : 1

SECTION 11: Toxicological information

N,N,N',N'-tetraglycidyl-4,4'- | - | diaminodiphenylmethane | | - |

Positive

OECD 474 Mammalian Erythrocyte

Positive

Positive

Micronucleus Test

OECD 471 Bacterial Reverse

Positive

1,6-hexanedioldiglycidyl

ether

Mutation Test

Negative

OECD 486 Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo

Negative

OECD 474 Mammalian Erythrocyte Micronucleus Test

: Not available.

Conclusion/Summary

Carcinogenicity

Reproductive toxicity

Teratogenicity

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

Inhalation: Exposure to decomposition products may cause a health hazard. Serious effects

may be delayed following exposure.

Ingestion: No known significant effects or critical hazards.

Skin contact: May cause sensitisation by skin contact.

Eye contact : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No specific data.Ingestion: No specific data.

Skin contact: Adverse symptoms may include the following:

irritation redness

Eye contact : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects: Not available.

Long term exposure

Potential immediate :

: Not available.

effects

Potential delayed effects: Not available.

Potential chronic health effects

Product/ingredient name	Test	Result type		Result	Target organs
1,6-hexanedioldiglycidyl ether	OECD 422 Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	NOAEL	Sub-acute NOAEL Oral	200 mg/kg	-

Conclusion/Summary

: Not available.

General

: Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity: No known significant effects or critical hazards.

Date of issue / Date of revision : 7 September 2011

RENCAST CW 47 10/14

Date of printing : 7 September 2011 MSDS no. : 00056733

Date of issue : 7 September 2011 Version : 1

SECTION 11: Toxicological information

Mutagenicity : May cause heritable genetic effects, based on animal data.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Test	Endpo	oint	Exposure	Species	Result	
N,N,N',N'-tetraglycidyl-4,4'-diaminodiphenylmethane	OECD 201 Alga, Growth Inhibition Test	Acute	EC50	72 hours Static	Algae	4.8	mg/L
	OECD 202 <i>Daphnia</i> sp. Acute Immobilisation Test	Acute	EC50	48 hours Static	Daphnia	6.7	mg/L
	DIN DIN 38412 Part 8	Acute	IC50	24 hours Static	Bacteria	>10000	mg/L
	OECD 203 Fish, Acute Toxicity Test	Acute	LC50	96 hours Static	Fish	7	mg/L
1,6-hexanedioldiglycidyl ether	OECD 202 <i>Daphnia</i> sp. Acute Immobilisation Test	Acute	EC50	48 hours Static	Daphnia	47	mg/L
	OECD 209 Activated Sludge, Respiration Inhibition Test	Acute	IC50	3 hours Static	Bacteria	>100	mg/L
	OECD 203 Fish, Acute Toxicity Test	Acute	LC50	96 hours Semi- static	Fish	30	mg/L

12.2 Persistence and degradability

Product/ingredient name	Test	Period		Result	
N,N,N',N'-tetraglycidyl-4,4'- diaminodiphenylmethane 1,6-hexanedioldiglycidyl ether	OECD 301F Ready Biodeg Manometric Respirometry OECD 301D Ready Biodeg Bottle Test	60 days 28 days		100 % 47 %	
Product/ingredient name	Aquatic half-life	Photolysis		Biodeg	radability
1,6-hexanedioldiglycidyl ether	-	-		Inheren	t

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
N,N,N',N'-tetraglycidyl-4,4'-diaminodiphenylmethane	2.12	-	low
1,6-hexanedioldiglycidyl ether	0.822	-	low

12.4 Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Not applicable.

12.6 Other adverse effects: No known significant effects or critical hazards.

Date of issue / Date of revision : 7 September 2011 10/14

RENCAST CW 47 11/14

Date of printing : 7 September 2011 MSDS no. : 00056733

Date of issue : 7 September 2011 Version : 1

SECTION 12: Ecological information

12.7 Other ecological information

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal

The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste : Yes. European waste catalogue (EWC)

Waste code	Waste designation
07 02 08*	other still bottoms and reaction residues

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

14.1 UN number 14.2 UN proper shipping name

ADR/RID Not regulated. -

ADN/ADNR not available not available

IMDG Not regulated. IATA Not regulated. -

	ADR/RID	ADN/ADNR	IMDG	IATA
14.3 Transport hazard class(es)	-	not available	-	-
14.4 Packing group	-		-	-
14.5 Environmental hazards	No.		No.	No.

Date of issue / Date of revision: 7 September 2011

RENCAST CW 47 12/14

Date of printing : 7 September 2011 MSDS no. : 00056733

Date of issue : 7 September 2011 Version : 1

SECTION 14: Transport information

14.6 Special precautions for user	Not available.	Not available.	Not available.
Additional information	-	Emergency schedules (EmS)	-

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

Europe inventory : All components are listed or exempted.

: Not listed **Black List Chemicals** : Not listed **Priority List Chemicals** Integrated pollution : Listed

prevention and control

list (IPPC) - Air

Integrated pollution prevention and control list (IPPC) - Water

: Listed

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
N,N,N',N'-tetraglycidyl-4,4'-diaminodiphenylmethane	-	Muta. Cat. 3; R68	-	-

National regulations

References

: The provision of Safety Data Sheets comes under Regulation 6 of CHIP (CHIP is the recognised abbreviation for the Chemicals Hazard Information and Packaging Regulations). This is an addition to the Health and Safety at Work Act 1974.

12/14

International regulations

Chemical Weapons

Convention List Schedule I

Chemicals

: Not listed

Chemical Weapons

Convention List Schedule II

Chemicals

: Not listed

RENCAST CW 47 13/14

Date of printing : 7 September 2011 MSDS no. : 00056733

Date of issue : 7 September 2011 Version : 1

SECTION 15: Regulatory information

Chemical Weapons

: Not listed **Convention List Schedule III**

Chemicals

15.2 Chemical Safety **Assessment**

This product contains substances for which Chemical Safety Assessments are still

required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Muta. 2. H341

Aquatic Chronic 3, H412

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification	
Skin Irrit. 2, H315	Calculation method	
Eye Irrit. 2, H319	Calculation method	
Skin Sens. 1, H317	On basis of test data	
Muta. 2, H341	Calculation method	
Aquatic Chronic 3, H412	Calculation method	

Full text of abbreviated H

statements

Causes skin irritation. H315

May cause an allergic skin reaction. H317 H319 Causes serious eye irritation.

H341 Suspected of causing genetic defects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

Full text of classifications

[CLP/GHS]

: Aquatic Chronic 2, H411 AQUATIC TOXICITY (CHRONIC) - Category 2 Aquatic Chronic 3, H412 AQUATIC TOXICITY (CHRONIC) - Category 3

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 Eye Irrit. 2, H319

Muta. 2, H341 GERM CELL MUTAGENICITY - Category 2 Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1

Full text of abbreviated R

phrases

: R68- Possible risk of irreversible effects.

R36/38- Irritating to eyes and skin.

R43- May cause sensitisation by skin contact.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

Full text of classifications

[DSD/DPD]

Muta. Cat. 3 - Mutagen category 3

Xi - Irritant

N - Dangerous for the environment

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SECTION 16: Other information

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