

Safety Data Sheet

Desmodur E 15

Version 1.2

Revision Date: 12/14/2020

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Desmodur E 15

Recommended use of the chemical and restrictions on use

Recommended use : Raw material for industry

Manufacturer or supplier's details

Company : Univar Solutions México, S. de R.L. de C.V.
Address : Av. Xola, número 535, piso 2, Col. Del Valle Norte
Deleg. Benito Juárez CP 03103
Ciudad de México
Mexico

Emergency telephone number:

Transport North America: CHEMTREC (1-800-424-9300)

CHEMTREC INTERNATIONAL Tel # 703-527-3887

SETIQ 800 00 214 00 / 55 55 59 15 88

Additional Information: : Responsible Party: Product Compliance Department
E-Mail: SDSLA@univarsolutions.com
SDS Requests: 55 1107 0170
Website: www.univarsolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Inhalation) : Category 4

Eye irritation : Category 2A

Respiratory sensitisation : Sub-category 1A

Skin sensitisation : Sub-category 1A

Carcinogenicity : Category 2

GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H351 Suspected of causing cancer.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read

Safety Data Sheet Desmodur E 15

Version 1.2

Revision Date: 12/14/2020

and understood.
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P264 Wash skin thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective gloves/ eye protection/ face protection.
 P281 Use personal protective equipment as required.
 P285 In case of inadequate ventilation wear respiratory protection.
Response:
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.
 P363 Wash contaminated clothing before reuse.
Storage:
 P405 Store locked up.
Disposal:
 P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

This SDS was prepared according to NOM-018-STPS-2015.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical name	Weight percent
584-84-9	Benzene, 2,4-diisocyanato-1-methyl-	0.1 - 1

Any concentration shown as a range is due to batch variation.

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
 Show this safety data sheet to the doctor in attendance.
 Do not leave the victim unattended.
 If inhaled : Call a physician or poison control centre immediately.
 If unconscious, place in recovery position and seek medical

Safety Data Sheet

Desmodur E 15

Version 1.2

Revision Date: 12/14/2020

	advice.
	Move to fresh air.
	If not breathing, give artificial respiration.
	If breathing is difficult, give oxygen.
In case of skin contact	: Wash off with soap and water.
	If skin irritation persists, call a physician.
	Take off contaminated clothing and shoes immediately.
	Wash contaminated clothing before re-use.
In case of eye contact	: Rinse immediately with plenty of lukewarm water, also under the eyelids, for at least 15 minutes.
	Remove contact lenses.
	Protect unharmed eye.
	Keep eye wide open while rinsing.
	If eye irritation persists, consult a specialist.
If swallowed	: Do not induce vomiting without medical advice.
	Keep respiratory tract clear.
	Do not give milk or alcoholic beverages.
	Never give anything by mouth to an unconscious person.
	If symptoms persist, call a physician.
	Take victim immediately to hospital.
	Rinse mouth with water.
Most important symptoms and effects, both acute and delayed	: None known.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Alcohol-resistant foam Dry chemical Carbon dioxide (CO ₂) Water spray
Unsuitable extinguishing media	: High volume water jet
Hazardous combustion products	: No hazardous combustion products are known
Specific extinguishing methods	: Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Use personal protective equipment. Ensure adequate ventilation.
Environmental precautions	: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Safety Data Sheet

Desmodur E 15

Version 1.2

Revision Date: 12/14/2020

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
584-84-9	Benzene, 2,4-diisocyanato-1-methyl-	LMPE-PPT	0.02 ppm 0.14 mg/m ³	MX OEL

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.
In the case of vapour formation use a respirator with an approved filter.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing

Safety Data Sheet

Desmodur E 15

Version 1.2

Revision Date: 12/14/2020

Skin and body protection : problems.
: Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
Colour : clear, light yellow
Odour : strong
Odour Threshold : No data available
pH : No data available

Freezing point : No data available
Boiling point : No data available
Flash point : 190 °C (374 °F)

Evaporation rate : No data available
Flammability (solid, gas) : No data available
Upper explosion limit : 9.5 %(V)

Lower explosion limit : 0.9 %(V)

Vapour pressure : 0.025 mmHg @ 25 °C (77 °F)

Relative vapour density : No data available
Relative density : 1.05 @ 20 °C (68 °F)
Reference substance: (water = 1)

Density : No data available
Solubility(ies)
Water solubility : insoluble
Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : No data available
Auto-ignition temperature : No data available
Thermal decomposition : 177 °C

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : Polymerisation can occur.
Conditions to avoid : Keep away from heat, flame, sparks and other ignition sources.
Exposure to moisture
temperatures above 350 degrees F (177 degrees C)
Incompatible materials : water

Safety Data Sheet

Desmodur E 15

Version 1.2

Revision Date: 12/14/2020

Hazardous decomposition products : Amines
Alcohols
Copper alloys
Carbon dioxide (CO₂)
Carbon monoxide
nitrogen oxides
Smoke
Hydrogen cyanide (hydrocyanic acid)
Isocyanates

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute inhalation toxicity : Acute toxicity estimate: > 40 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Assessment: The component/mixture is moderately toxic after short term inhalation.

Components:

584-84-9:

Acute oral toxicity : LD50 (Rat): 4,130 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0.48 mg/l
Exposure time: 1 h
Assessment: The component/mixture is extremely toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rabbit): > 9,400 mg/kg

Skin corrosion/irritation

Components:

584-84-9:

Species: Rabbit
Result: Irritating to skin.

Serious eye damage/eye irritation

Product:

Result: Irritating to eyes.

Components:

584-84-9:

Species: Rabbit
Result: Irritating to eyes.

Safety Data Sheet

Desmodur E 15

Version 1.2

Revision Date: 12/14/2020

Respiratory or skin sensitisation

Product:

Result: The product is a respiratory sensitiser, sub-category 1A.

Result: The product is a skin sensitiser, sub-category 1A.

Components:

584-84-9:

Test Type: Maximization test

Species: Guinea pig

Result: May cause sensitisation by skin contact.

Species: Guinea pig

Result: May cause sensitisation by inhalation.

Germ cell mutagenicity

Components:

584-84-9:

Genotoxicity in vitro

: Test Type: Ames test

Species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

Genotoxicity in vivo

: Test Type: Chromosome aberration assay in vivo

Species: Mouse

Cell type: Bone marrow

Application Route: Inhalation

Result: negative

Germ cell mutagenicity -
Assessment

: Tests on bacterial or mammalian cell cultures did not show
mutagenic effects.

Carcinogenicity

Components:

584-84-9:

Species: Rat

Application Route: inhalation (vapour)

Exposure time: 2 Years

NOAEL: 0.15 ppm

Carcinogenicity - Assess-
ment

: Suspected human carcinogens

Reproductive toxicity

Components:

584-84-9:

Effects on foetal develop-

: Test Type: Embryo-foetal development

Safety Data Sheet

Desmodur E 15

Version 1.2

Revision Date: 12/14/2020

Inoculum: Activated sludge, domestic, non-adapted
Result: Not biodegradable
Biodegradation: 0 %
Exposure time: 28 d

Bioaccumulative potential

Components:

584-84-9:

Partition coefficient: n- : log Pow: Estimated 3.74
octanol/water

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological infor- : No data available
mation

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-909-4897

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

DOT (Department of Transportation): Not regulated as a dangerous good

MX-DG(Mexico Road Transportation): Not regulated as a dangerous good

IATA (International Air Transport Association): Not regulated as a dangerous good

IMDG (International Maritime Dangerous Goods): Not regulated as a dangerous good

Special precautions for user

Not applicable

Safety Data Sheet
Desmodur E 15

Version 1.2

Revision Date: 12/14/2020

SECTION 15. REGULATORY INFORMATION**The components of this product are reported in the following inventories:**

TSCA	:	not determined
DSL	:	not determined
AICS	:	not determined
NZIoC	:	not determined
ENCS	:	not determined
KECI	:	not determined
PICCS	:	not determined
IECSC	:	not determined

SECTION 16. OTHER INFORMATION**Further information**

Other information : The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions Product Compliance Department (55 1107 0170) SDSLA@univarsolutions.com.

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.

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

ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
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Safety Data Sheet

Desmodur E 15

Version 1.2

Revision Date: 12/14/2020

AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Invento-	UVCB	Unknown or Variable Composition,

Safety Data Sheet
Desmodur E 15

Version 1.2

Revision Date: 12/14/2020

	ry		Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50		Lethal Concentration	50%