

SAFETY DATA SHEET (SDS-CA)

DEGADUR® 165

Version:	4.0 / CA	VA-No.	0663
Revision date:	06/15/2018		
Issue date:	01/20/2016	4677	
replaces version:	3.0		
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1. Product and Company Identification

1.1. Product identifier

DEGADUR® 165

Solution of an acrylic polymer in an acrylic acid ester

1.2. Recommended use of the chemical and restrictions on use

Relevant applications identified : binder for floor-coating

Applications which are not advised : None known.

1.3. Details of the supplier of the safety data sheet

Evonik Canada Inc.
3380 South Service Road
Burlington, ON L7N 3J5
Canada

Phone number:
1-905-336-3423

Fax number:
1-905-332-5632

Email address:
product-regulatory-services@evonik.com

1.4. 24 HOUR EMERGENCY TELEPHONE NUMBERS:

CHEMTREC
-US & CANADA: 800-424-9300

CHEMTREC MEXICO: 01-800-681-9531

CHEMTREC
INTERNATIONAL: +1 703-527-3887
(collect calls accepted)

CANADA: CANUTEC
EMERGENCY NUMBER: 613-996-6666

Product Regulatory
Services: 973-929-8060

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2. Hazards identification

2.1. Classification of the substance or mixture

Hazardous Products Regulations

Flammable liquids	Category 2	H225
Acute toxicity (Oral)	Category 4	H302
Skin irritation	Category 2	H315
Skin Sensitisation	Category 1	H317
Specific target organ toxicity - single exposure (Respiratory system)	Category 3	H335
Specific target organ toxicity - repeated exposure (Oral, Kidney)	Category 2	H373
Acute aquatic toxicity	Category 3	H402

2.2. Label elements

Constituent decisive for hazardous-substance labeling : methyl methacrylate; CAS-No.: 80-62-6
dibutyl maleate; CAS-No.: 105-76-0
N,N-bis-(2-hydroxypropyl)-p-toluidine; CAS-No.: 38668-48-3

Symbol(s) :



Signal word : Danger

hazard statement : H225 - Highly flammable liquid and vapour.
H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H335 - May cause respiratory irritation.
H373 - May cause damage to organs through prolonged or repeated exposure if swallowed.
H402 - Harmful to aquatic life.

Precautionary Statement (Prevention) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground and bond container and receiving equipment.
P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 - Use non-sparking tools.
P243 - Take action to prevent static discharges.
P260 - Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 - Wash skin thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/ eye protection/ face protection.

Precautionary Statement (Response) : P301 + P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314 - Get medical advice/ attention if you feel unwell.
P330 - Rinse mouth.
P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 - Take off contaminated clothing and wash it before reuse.
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam

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to extinguish.

Precautionary Statement (Storage) : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
P235 - Keep cool.
P405 - Store locked up.

Precautionary Statement (Disposal) : P501 - Dispose of contents/ container to an approved waste disposal plant.

2.3. Other hazards

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.
Take precautionary measures against static discharges.

3. Composition/information on ingredients

Solution of an acrylic polymer in an acrylic acid ester

3.1. Substances

-

3.2. Mixtures**Hazardous Ingredients**

Chemical Name	CAS-No.	Concentration	Classification
methyl methacrylate	80-62-6	45.0 % - 70.0 %	Flam. Liq., 2, H225 Skin Irrit., 2, H315 Skin.sens., 1B, H317 STOT SE, 3, H335 Aquatic Acute, 3, H402
1,4-butanediol dimethacrylate	2082-81-7	3.0 % - 7.0 %	Skin.sens., 1B, H317 Aquatic Acute, 2, H401
dibutyl maleate	105-76-0	3.0 % - 7.0 %	Skin.sens., 1A, H317 STOT RE, 2, H373, Oral Aquatic Acute, 1, H400
N,N-bis-(2-hydroxypropyl)-p-toluidine	38668-48-3	1.0 % - 5.0 %	Acute Tox., 2, H300, Oral Eye Irrit., 2A, H319 Aquatic Acute, 3, H402 Aquatic Chronic, 3, H412
(2-hydroxy-4-methoxyphenyl)phenyl-methanone	131-57-7	1.0 % - 5.0 %	Aquatic Acute, 1, H400 Aquatic Chronic, 2, H411
The exact concentration has been withheld as a trade secret.	---		

Texts of H phrases, see in Chapter 16

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4. First-aid measures

4.1. Description of first aid measures

- General advice : Take off all contaminated clothing immediately. Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours.
- Inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. If feeling unwell seek medical advice.
- Skin contact : IF ON SKIN: Wash with plenty of water/ soap. Remove and wash contaminated clothing before re-use. If skin irritation occurs consult a physician.
- Eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, contact a physician.
- Ingestion : IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. Do not induce vomiting. Never give anything by mouth to an unconscious person.

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

Product has dermal defatting effect, Excessive or prolonged exposure can cause the following: loss of coordination, Nausea, Headache, skin irritation possible, difficulty breathing

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

If ingested, irrigate the stomach. If the product has been swallowed or vomited danger of penetration into the lung (danger of aspiration).

5. Fire-fighting measures

5.1. Extinguishing media

- Suitable extinguishing media : dry chemical
carbon dioxide
Alcohol-resistant foam
- Unsuitable extinguishing media : water

5.2. Specific hazards arising from the chemical

Products or compounds possibly released in case of fire:
Carbon oxides
organic products of decomposition

5.3. Special protective equipment and precautions for fire-fighters

Evacuate enclosed and surrounding areas.
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Use water spray to cool containers exposed to fire and disperse vapors.
Keep spills away from sources of ignition.
Vapours are heavier than air and can form an explosive mixture with air.
Also keep emptied containers away from sources of heat and ignition.
Keep out unprotected persons.
In case of fire, remove the endangered barrels and bring to a safe place, if this can be done safely.
Containers exposed to heat (fire) may build up pressure. Cool by splashing with water.
Prevent fire extinguishing water from contaminating surface water or the ground water system.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Assure sufficient ventilation.
Use personal protective clothing.
Keep away sources of ignition.
Use breathing apparatus if exposed to vapours/dust/mist/aerosol.

6.2. Environmental precautions

Prevent product from getting into drains/surface water/groundwater.

6.3. Methods and material for containment and cleaning up

Remove sources of ignition and ventilate area.
All equipment used when handling the product must be grounded.
Use personal protective equipment.
Absorb spill with inert material and place in a chemical waste container.
Obey relevant local, state, provincial and federal laws and regulations.
See Material Safety Data Sheet section 8, Exposure Controls/Personal Protection. Do not contaminate any lakes, streams, ponds, groundwater or soil.

7. Handling and storage

7.1. Precautions for safe handling

- Safe handling advice : Avoid contact with skin and eyes. Avoid breathing vapors/dust/mist. Keep container tightly closed. Provide good room ventilation even at ground level (vapours are heavier than air). Keep away from heat/sparks/open flames/hot surfaces. No smoking. When heated above the flash point and/or during spraying (atomizing), ignitable mixtures may form in air. Use portable ventilation if necessary at job site. Product is supplied in a stabilized form. Open container carefully as it may be pressurized. Stir well before decanting from drum. Ground and bond containers when transferring material. Take precautionary measures against static discharges. Use explosion-proof equipment. Do not eat, drink, smoke or chew tobacco around material. Keep containers cool in case of fire.
- Advice on protection against fire and explosion : Keep away from heat/sparks/open flames/hot surfaces. No smoking. Take precautionary measures against static discharges. Use only spark-proof tools. In the event of fire, cool the endangered containers with water. When heated above the flash point and/or during spraying (atomizing), ignitable mixtures may form in air. Use explosion-proof equipment.

7.2. Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep containers tightly closed in a cool, well-ventilated place. Keep container closed when not in use. Keep away from sparks, flames and other sources of ignition. Keep away from heat. Protect from direct sunlight. Limit storage of flammable liquids to approved areas equipped with overhead sprinklers. Protect material from contamination (refer to Section 10 for incompatibilities). Fill the container by approximately 90 % only as oxygen (air) is required for stabilisation. With large storage containers make sure the oxygen (air) supply is sufficient to ensure stability. Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container. Do not heat or cut the empty container with electric or gas torch. Keep in the original container at a temperature not exceeding 25 °C (77 °F).
- Further information : Improper disposal or re-use of this container may be dangerous and illegal.

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8. Exposure controls/personal protection**8.1. Control parameters****Exposure Limit Information****METHYL METHACRYLATE**

(CAS Number 80-62-6)

Occupational Exposure Values

			Remark(s):
OEL-TWA (Alberta)	50 ppm	205 mg/m3	
OEL-STEL (Alberta)	100 ppm	410 mg/m3	
OEL-TWA (British Columbia)	50 ppm		Capable of causing respiratory, dermal or conjunctival sensitization.
OEL-STEL (British Columbia)	100 ppm		Capable of causing respiratory, dermal or conjunctival sensitization.
OEL-TWA (Ontario)	50 ppm		
OEL-STEL (Ontario)	100 ppm		
OEL-TWA (Quebec)	50 ppm	205 mg/m3	Sensitiser
OEL-STEL (Quebec)			not established
OEL-TWA (Mexico)	50 ppm		Carcinogen Category 4 - not classifiable as a human carcinogen
OEL-STEL (Mexico)	100 ppm		Carcinogen Category 4 - not classifiable as a human carcinogen
OEL-STEL (Saskatchewan)	100 ppm		The product may cause sensitization.
OEL-TWA (Saskatchewan)	50 ppm		The product may cause sensitization.
OEL-STEL (Manitoba)	100 ppm		Sensitiser
OEL-TWA (Manitoba)	50 ppm		Sensitiser
OEL-STEL (California)	100 ppm	410 mg/m3	
OEL-STEL (California)	50 ppm	205 mg/m3	
OEL-TWA (Oregon)	100 ppm	410 mg/m3	
OEL-TWA (Tennessee)	100 ppm	410 mg/m3	

DIBUTYL MALEATE

(CAS Number 105-76-0)

Occupational Exposure Values

			Remark(s):
Short-Term ESL:	0.28 ppm	2.6 mg/m3	
Annual ESL:	0.028 ppm	0.26 mg/m3	

8.2. Exposure controls**Engineering controls**

Provide general and/or local exhaust ventilation to maintain airborne levels below the exposure limits in Section 8. Refer to the current edition of 'Industrial Ventilation: A Manual of Recommended Practice' published by the American Conference of Government Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

8.3. Personal protective equipment

Protective measures

A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

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Hygiene measures	Take off all contaminated clothing immediately. Store work clothing separately. Follow the usual good standards of occupational hygiene. Clean skin thoroughly after work; apply skin cream.
Respiratory protection	A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.
Hand protection	butyl rubber gloves In practice, due to variable exposure conditions, this information can only be an aid to orientation for the selection of a suitable chemical protection glove. In particular, this information does not substitute suitability tests by the end user.
Splash protection	neoprene gloves
General information	Gloves should be replaced regularly, especially after extended contact with the product. For each work-place a suitable glove type has to be selected.
Eye protection	Use safety glasses (ANSI Z87.1 or approved equivalent).
Skin and body protection	On handling of larger quantities: face mask, chemical-resistant boots and apron

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: liquid
Form	: liquid
Colour	: bluish, slightly turbid
Odour	: ester-like
pH	: not applicable
Paraffin Separation	: < 15 °C
	: 59 °F
Boiling point/range	: approx. 100 °C (1,013 hPa)
Boiling Point	: 100 °C
Flash point	: 10 °C Method: DIN 51 755 Remarks: (methyl methacrylate) 50 °F Method: DIN 51 755 Remarks: (methyl methacrylate)
Flammability	: not applicable
Upper explosion limit	: 12.5 %(V) Remarks: (methyl methacrylate)
Lower explosion limit	: 2.1 %(V) Remarks: at 10,5°C / 33,8°F (methyl methacrylate)

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Vapour pressure : approx. 40 hPa
(20 °C)
(68 °F)

Relative vapour density : > 1
(20 °C)
(68 °F)

Relative density : no data available

Solubility(ies) : no data available

Solubility (qualitative) : soluble in ethyl acetate

Water solubility : approx. 20 g/l
(20 °C)
(68 °F)

Partition coefficient: n-octanol/water : no data available

Autoignition temperature : no data available

Thermal decomposition : No decomposition if used as directed.

Viscosity, kinematic : no data available

Viscosity, dynamic : 50 - 90 mPa.s
(23 °C)
Method: DIN 53018
(73 °F)

Explosive properties : no data available

Density : 1.00 g/cm³
(20 °C)
(68 °F)

9.2. Other information

sublimation : no data available

Ignition temperature : 430 °C
Method: DIN 51794
Remarks: (methyl methacrylate)
806 °F
Method: DIN 51794
Remarks: (methyl methacrylate)

Impact Sensitivity : Not impact sensitive.

Other information : none

10. Stability and reactivity

10.1. Reactivity

see section 10.2.

10.2. Chemical stability

No decomposition if used as directed.

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10.3. Possibility of hazardous reactions

May occur when exposed to excessive heating or contaminated with incompatible materials.
The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is exceeded, the product may polymerize with heat evolution.

10.4. Conditions to avoid

Heat and ignition sources, aging, contamination, oxygen free atmosphere.

10.5. Incompatible materials

Peroxides, amines, sulfur compounds, heavy metal ions, alkalis, reducing agents and oxidizing agents.

10.6. Hazardous decomposition products

None when used as directed.

11. Toxicological information

11.1. Information on toxicological effects

toxicokinetics, metabolism and distribution	:	no specific test data available
Acute toxicity (oral)	:	Acute toxicity estimate Dose: 1,316 mg/kg Method: Calculation method
Acute toxicity (dermal)	:	LD50 rabbit > 5,000 mg/kg Related to substance: methyl methacrylate LD50 rabbit, (analogy) > 3,000 mg/kg Related to substance: 1,4-butandiol dimethacrylate
Irritation/corrosion of the skin	:	Contact with skin may cause irritations.
Serious eye damage/ eye irritation	:	Contact with the eyes may cause irritation.
Respiratory/skin sensitization	:	Species: Mouse Classification: May cause sensitisation by skin contact. Method: OECD TG 429 Related to substance: methyl methacrylate

Remarks: In humans various types of allergic reactions have been observed (symptoms: headache, eye irritations, skin affections).
Related to substance: methyl methacrylate

Remarks: In sensitisation test on guinea pig using adjuvants negative and positive results were found.
Related to substance: 1,4-butandiol dimethacrylate

Species: Mouse
Classification: May cause sensitisation by skin contact.
Method: OECD TG 429
Remarks: (own study)
Related to substance: 1,4-butandiol dimethacrylate

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Species: Guinea pig
 Classification: May cause sensitisation by skin contact.
 Method: Maximisation Test
 Related to substance: dibutyl maleate

Repeated dose toxicity	: rat, inhalation, 2 Years	NOAEL
	Findings: damage to the nasal mucosa	25 ppm
	Related to substance: methyl methacrylate	
	rat, in drinking water, 2 Years	NOAEL
	Findings: no toxic effects	2000 ppm
	Related to substance: methyl methacrylate	
	Rat, oral, OECD 422	NOAEL
	Related to substance: 1,4-butandiol dimethacrylate	300 mg/kg

Repeated exposure to high levels may produce liver and kidney damage.
 Related to substance: dibutyl maleate

CMR assessment

Carcinogenicity	: Contains no ingredient listed as a carcinogen (>0.1%). No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.
Mutagenicity	: Contains no ingredient listed as a mutagen (>0.1%).
Teratogenicity	: Does not contain any component that has been classified as teratogenic (>0.1%).
Toxicity to reproduction	: Contains no ingredient listed as toxic to reproduction (>0.1%).
Specific Target Organ Toxicity - Repeated exposure	: Specific target organ toxicity – repeated exposure category 2 (UN-GHS)

Target Organs: Liver, Kidney

Related to substance: dibutyl maleate

Aspiration hazard	: not applicable
Other information	: There are no toxicological data available for the product as such. Avoid contact with the skin and eyes and inhalation of the product vapours.

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12. Ecological information

12.1. Toxicity

- Aquatoxicity, fish : Species: Oncorhynchus mykiss (rainbow trout)
Exposure duration: 96 h
LC50: > 79 mg/l
Method: OECD 203, flow through
GLP: GLP
Related to substance: methyl methacrylate
Species: Oncorhynchus mykiss (rainbow trout)
Exposure duration: 48 h
LC50: 1.2 mg/l
Related to substance: dibutyl maleate
- Aquatoxicity, invertebrates : Species: Daphnia magna
Exposure duration: 48 h
EC50: 69 mg/l
Method: OECD 202
Related to substance: methyl methacrylate
Species: Daphnia magna
Exposure duration: 48 h
EC50: 21 mg/l
Related to substance: dibutyl maleate
- Aquatoxicity, algae / aquatic plants : Species: Scenedesmus quadricauda
Exposure duration: 8 d
EC3: 37 mg/l
Method: DIN 38412, T.9
Related to substance: methyl methacrylate
Species: Desmodesmus subspicatus (green algae)
Exposure duration: 72 h
EC50: 1.4 mg/l
Method: (Directive 92/69/EEC part C.3.)
Related to substance: (2-hydroxy-4-methoxyphenyl)phenyl-methanone
Species: Desmodesmus subspicatus
Exposure duration: 72 h
EC50: 6.2 mg/l
Related to substance: dibutyl maleate
- Toxicity in microorganisms : Species: Pseudomonas putida
EC0: 100 mg/l
Related to substance: methyl methacrylate

12.2. Persistence and degradability

- Biological degradability : Result: biodegradable
Remarks: (monomer constituent)

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12.3. Bioaccumulative potential

Bioaccumulation : no evidence for hazardous properties

12.4. Mobility in soil

Environmental distribution : no specific test data available

12.5. Other adverse effects

General Information : Prevent substance from entering soil, natural bodies of water and sewer systems.

13. Disposal considerations

13.1. Waste treatment methods

Product : Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method.
Empty containers must be handled with care due to product residue.
DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.

Contaminated packaging : Contaminated packages must be emptied as good as possible. They may then be recycled after proper cleaning. Packages that cannot be cleaned must be disposed of in the same way as the substance.
Uncontaminated packaging may be taken for recycling.

14. Transport information

II

T.D.G. Road/Rail

4.1. UN number: UN 1866
4.2. UN proper shipping name: RESIN SOLUTION
4.3. Transport hazard class(es): 3
4.4. Packing group: II
14.5. Environmental hazards (Marine pollutant): --
14.6. Special precautions for user: No

Air transport ICAO-TI/IATA-DGR

4.1. UN number: UN 1866
4.2. UN proper shipping name: Resin solution
4.3. Transport hazard class(es): 3
4.4. Packing group: II
14.5. Environmental hazards: --
14.6. Special precautions for user: No

Sea transport IMDG-Code/GGVSee (Germany)

4.1. UN number: UN 1866
4.2. UN proper shipping name: RESIN SOLUTION
4.3. Transport hazard class(es): 3
4.4. Packing group: II
14.5. Environmental hazards (Marine pollutant): --
14.6. Special precautions for user: No
EmS: F-E,S-E

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:
for transport approval see regulatory information

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15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****OTHER LABELING SYSTEMS**

	Health	Flammability	Physical Hazard
HMIS-Ratings	2*	3	2
NFPA-Ratings	2	3	2

CANADIAN REGULATION

This is a controlled product.

WHMIS: B2, D2A, D2B

Component / CASRN

NPRI

methyl methacrylate /
80-62-6

YES

1,4-butanediol dimethacrylate /
2082-81-7

NO

Status of Registration

REACH (EU)	preregistered, registered or exempted
TSCA (USA)	listed or exempted
DSL (CDN)	listed or exempted
AICS (AUS)	listed or exempted
METI (J)	listed or exempted
ECL (KOR)	listed or exempted
PICCS (RP)	listed or exempted
IECSC (CN)	listed or exempted
HSNO (NZ)	listed or exempted
	HSR001620

16. Other information**Relevant H phrases from chapter 3**

H225	: Highly flammable liquid and vapour.
H300	: Fatal if swallowed.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.
H335	: May cause respiratory irritation.
H373	: May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	: Very toxic to aquatic life.
H401	: Toxic to aquatic life.
H402	: Harmful to aquatic life.
H411	: Toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.
References	: relevant manuals and publications own examinations own toxicological and ecotoxicological studies toxicological and ecotoxicological studies of other manufacturers SIAR OECD-SIDS RTK public files

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Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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SAFETY DATA SHEET (SDS-CA)**DEGADUR® 165**

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Legend

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADNR	European agreement concerning the international carriage of dangerous goods by inland waterways (ADN)
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ISO	International Organization For Standardization
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
VwVws	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization

