

## SAFETY DATA SHEET

### 1. Identification

**Product identifier:** DEGADUR® B 71

#### Other means of identification

**Recommended use:** binder for floor-coating Roller application or brushing Hand-mixing with intimate contact and only PPE available Wide dispersive indoor use resulting in inclusion into or onto a matrix Wide dispersive outdoor use resulting in inclusion into or onto a matrix

**Recommended restrictions:** None known.

#### Manufacturer/Importer/Distributor Information

Company Name : Röhm GmbH  
Product Stewardship  
Kirschenallee  
64293 Darmstadt

Telephone : +49 6151 18 4076

E-mail : sds-info@roehm.com

#### Manufacturer

##### Emergency telephone number:

24-Hour Health : +49 6241 402 5280 (24h)

Emergency : +49 6131 19 240 (24h)

### 2. Hazard(s) identification

#### According to Hazardous Product Regulations

##### Physical Hazards

Flammable liquids Category 2

##### Health Hazards

Acute toxicity (Oral) Category 5

Skin irritation Category 2

Skin sensitizer Category 1

Specific Target Organ Toxicity -  
Single Exposure Category 3<sup>1</sup>

##### Target Organs

1. Respiratory system

##### Environmental Hazards

Acute hazards to the aquatic  
environment Category 3

#### Label Elements

**Hazard Symbol:**



**Signal Word:** Danger

**Hazard Statement:** Highly flammable liquid and vapor.  
May be harmful if swallowed.  
Causes skin irritation.  
May cause an allergic skin reaction.  
May cause respiratory irritation.  
Harmful to aquatic life.

**Precautionary Statements**

**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof [electrical/ventilating/lighting/...] equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/eye protection/face protection.

**Response:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:** Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

**Disposal:** Dispose of contents/ container to an approved waste disposal plant.

**Other hazards:** Take precautionary measures against static discharges. 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.

### 3. Composition/information on ingredients

#### Mixtures

Solution of an acrylic polymer in an acrylic acid ester

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Methyl methacrylate		80-62-6	>=50,0 - <70,0%
triethyleneglycol dimethacrylate		109-16-0	>=1,0 - <10,0%
N,N-bis-(2-hydroxypropyl)-p-toluidine		38668-48-3	>=0,1 - <1,0%
Triisodecylphosphite		25448-25-3	>=0,1 - <1,0%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

### Description of necessary first-aid measures

**General information:** 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. Remove contaminated, saturated clothing.

**Inhalation:** Move subject to fresh air and keep him calm. If feeling unwell seek medical advice.

**Skin Contact:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. If symptoms persist, call a physician.

**Eye contact:** Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

**Ingestion:** Do not induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person.

**Personal Protection for First-aid Responders:** Wear self-contained breathing apparatus.

### Most important symptoms/effects, acute and delayed

**Symptoms:** Excessive or prolonged exposure can cause the following: Daze  
Numbness Headache. Difficulty in breathing. loss of  
consciousness

**Hazards:** No data available.

### Indication of immediate medical attention and special treatment needed

**Treatment:** No specific antidote known.

## 5. Fire-fighting measures

**General Fire Hazards:** Vapours are heavier than air and can form an explosive mixture with air. Flammable liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint. Remove sources of ignition. 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. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** foam Dry chemical. Carbon dioxide

**Unsuitable extinguishing media:** High volume water jet

**Specific hazards arising from the chemical:** May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition. Closed container may rupture if strongly heated. Vapours may form explosive mixtures with air. Combustible air-vapour mixtures are heavier than the air and spread along the floor. Ignition from a considerable distance is possible.

### Special protective equipment and precautions for firefighters

**Special fire fighting procedures:** Keep away from sources of ignition - No smoking. Vapors are heavier than air. Flammable liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint. Take action to prevent static discharges. In the event of fire, cool the endangered containers with water. Fire fighting must be carried out from a safe distance. Use explosion-proof equipment.

**Special protective equipment for fire-fighters:** Wear self-contained breathing apparatus.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Assure sufficient ventilation. Use personal protective clothing. Use breathing apparatus if exposed to vapours/dust/mist/aerosol. Keep away from open flames, hot surfaces and sources of ignition. Vapours can form explosive mixtures with air. Keep out unprotected persons. Avoid spark generation.

**Methods and material for containment and cleaning up:** Larger quantities: Remove mechanically (by pumping). Use explosion-proof equipment! Smaller quantities and/or residues: Contain with absorbent material (e.g. sand, diatomaceous earth, acid absorbent, universal absorbent or sawdust). Dispose of in accordance with regulations.

**Environmental Precautions:** Prevent product from getting into drains/surface water/groundwater.

## 7. Handling and storage

**Precautions for safe handling:** Keep away from sources of ignition - No smoking. Vapors are heavier than air. Flammable liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint.

Take action to prevent static discharges. In the event of fire, cool the endangered containers with water. Fire fighting must be carried out from a safe distance. Use explosion-proof equipment. Do not breathe vapors. Avoid contact with skin and eyes. Wash hands before breaks and immediately after handling the product. Safety shower and eye wash fountain should be available. When using do not eat, drink or smoke. Avoid inhalation, ingestion and contact with skin and eyes. Provide sufficient ventilation and exhaust at the workplace. Provide good room ventilation even at ground level (vapours are heavier than air). Keep container tightly closed. Open drum carefully as content may be under pressure. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Wash thoroughly after handling. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. 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. Control staff entry to working area. Training for staff on good practice. Recording of any 'near miss' situations. Regular cleaning of equipment and work area. Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)

**Conditions for safe storage, including any incompatibilities:** Keep away from direct sunlight. Keep away from open flames, hot surfaces and sources of ignition. Keep away from heat. Protect from the action of light. Keep containers tightly closed in a cool, well-ventilated place. 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. Keep at temperature not exceeding + 30 °C. Keep locked up.

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Methyl methacrylate	TWA	50 ppm	US. ACGIH Threshold Limit Values (03 2016)
	STEL	100 ppm	US. ACGIH Threshold Limit Values (03 2016)

#### Biological Limit Values

No biological exposure limits noted for the ingredient(s).

#### Appropriate Engineering Controls

For monitoring procedures refer for instance to "Empfohlene Analysenverfahren für Arbeitsplatzmessungen", Schriftenreihe der Bundesanstalt für Arbeitsschutz and "NIOSH Manual of Analytical Methods", National Institute for Occupational Safety and Health

## Individual protection measures, such as personal protective equipment

<b>General information:</b>	No data available.
<b>Eye/face protection:</b>	tightly fitting goggles
<b>Skin Protection</b>	
<b>Hand Protection:</b>	Material: butyl rubber gloves Break-through time: 66 min Guideline: EN 374 Additional 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.
<b>Other:</b>	On handling of larger quantities: face mask, chemical-resistant boots and apron
<b>Respiratory Protection:</b>	Breathing apparatus in case of high concentrations if the limit values like TLV are exceeded, when vapours or aerosols occur Respirator with filter for organic vapour
<b>Hygiene measures:</b>	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.

## 9. Physical and chemical properties

### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	colourless
<b>Odor:</b>	ester-like
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	Not applicable
<b>Freezing point:</b>	-48 °C (methyl methacrylate)
<b>Boiling Point:</b>	approx. 100 °C (1.013 hPa) 212 °F (1.013 hPa)
<b>Flash Point:</b>	10 °C (DIN 51 755) (methyl methacrylate)
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability Limit - Upper (%):</b>	12,5 %(V) (methyl methacrylate)
<b>Flammability Limit - Lower (%):</b>	2,1 %(V) (methyl methacrylate)
<b>Vapor pressure:</b>	37,8 hPa (20 °C) (methyl methacrylate)
<b>Vapor density (air=1):</b>	> 1 20 °C
<b>Density:</b>	1,01 g/cm <sup>3</sup> (20 °C) (DIN 51757)
<b>Relative density:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	approx. 21 g/l (20 °C)
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Autoignition Temperature:</b>	The substance or mixture is not classified as self heating.
<b>Decomposition Temperature:</b>	No decomposition if used as directed.

<b>Kinematic viscosity:</b>	No data available.
<b>Dynamic viscosity:</b>	approx. 200 mPa.s (23 °C)
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	No data available.
<b>Other information</b>	
<b>Dust Explosion Limit, Upper:</b>	(methyl methacrylate)
<b>Dust Explosion Limit, Lower:</b>	(methyl methacrylate)
<b>Minimum ignition temperature:</b>	430 °C (DIN 51794) (methyl methacrylate)
<b>Self Ignition Temperature:</b>	The substance or mixture is not classified as self heating.

## 10. Stability and reactivity

<b>Reactivity:</b>	No data available.
<b>Chemical Stability:</b>	No decomposition if used as directed.
<b>Possibility of hazardous reactions:</b>	Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions. Vigorous polymerization is possible when heated /exposed to heat.
<b>Conditions to avoid:</b>	Heat and ignition sources, aging, contamination, oxygen free atmosphere. Ultraviolet light. 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.
<b>Incompatible Materials:</b>	Peroxides, amines, sulfur compounds, heavy metal ions, alkalis, reducing agents and oxidizing agents.
<b>Hazardous Decomposition Products:</b>	None when used as directed.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation:</b>	Relevant route of exposure. Information on effects are given below.
<b>Skin Contact:</b>	Relevant route of exposure. Information on effects are given below.
<b>Eye contact:</b>	Relevant route of exposure. Information on effects are given below.
<b>Ingestion:</b>	If handled correctly, not a relevant route of exposure. Information on effects are given below.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Inhalation:</b>	Headache. Dizziness.
<b>Skin Contact:</b>	May cause skin irritation. May cause allergic skin reaction.
<b>Eye contact:</b>	Causes serious eye irritation.

**Ingestion:** If handled correctly, not a relevant route of exposure. Information on effects are given below.

## Information on toxicological effects

### Acute toxicity (list all possible routes of exposure)

#### Oral

**Product:** Acute toxicity estimate: 2.778 mg/kg

#### Dermal

**Product:** Acute toxicity estimate: > 5.000 mg/kg

#### Inhalation

**Product:** No data available.

#### Specified substance(s):

Methyl methacrylate LC 50 (Rat): 29,8 mg/l  
Vapour

The substance or mixture has no acute inhalation toxicity  
Dusts, mists and fumes

triethyleneglycol  
dimethacrylate Not toxic after single exposure  
No labelling required  
Dusts, mists and fumes

N,N-bis-(2-  
hydroxypropyl)-p-  
toluidine The substance or mixture has no acute inhalation toxicity  
Dusts, mists and fumes  
The substance or mixture has no acute inhalation toxicity  
Vapour

Triisodecylphosphite LC 50 (Rat): > 12,6 mg/l  
Dusts, mists and fumes

Vapour

#### Repeated dose toxicity

**Product:** No data available.

#### Specified substance(s):

Methyl methacrylate NOAEL (Rat, Inhalation(Vapour) ): 25 ppm

NOAEL (Rat, Oral): 2000 ppm

triethyleneglycol  
dimethacrylate NOAEL (Rat, Oral): 1.000 mg/kg



## Skin Corrosion/Irritation

**Product:** Contact with skin may cause irritations. The data are derived from the evaluations or test results achieved with the individual substances.

## Serious Eye Damage/Eye Irritation

**Product:** No data available.

## Respiratory or Skin Sensitization

**Product:** No data available.

### Specified substance(s):

Methyl methacrylate	Local Lymph Node Assay, OECD TG 429 (Mouse): May cause sensitization by skin contact.
triethyleneglycol dimethacrylate	Local Lymph Node Assay (Mouse): Skin sensitizer
N,N-bis-(2-hydroxypropyl)-p-toluidine	Not a skin sensitizer.
Triisodecylphosphite	May cause sensitization by skin contact.

## Carcinogenicity

**Product:** Contains no ingredient listed as a carcinogen (>0.1%).

## Germ Cell Mutagenicity

### In vitro

**Product:** No data available.

### Specified substance(s):

triethyleneglycol dimethacrylate	Not classified
N,N-bis-(2-hydroxypropyl)-p-toluidine	(OECD TG 471)negative

### In vivo

**Product:** No data available.

### Specified substance(s):

triethyleneglycol dimethacrylate	Not classified
N,N-bis-(2-hydroxypropyl)-p-toluidine	Ames test: negative

## Reproductive toxicity

**Product:** Contains no ingredient listed as toxic to reproduction (>0.1%).

## Specific Target Organ Toxicity - Single Exposure

**Product:** No data available.

### Specified substance(s):

Methyl methacrylate	Category 3 with respiratory tract irritation.
triethyleneglycol dimethacrylate	Not classified

N,N-bis-(2-hydroxypropyl)-p-toluidine	Not classified
Triisodecylphosphite	Not classified

### Specific Target Organ Toxicity - Repeated Exposure

**Product:** No data available.

**Specified substance(s):**

Methyl methacrylate	Not classified
triethyleneglycol dimethacrylate	Not classified
N,N-bis-(2-hydroxypropyl)-p-toluidine	Not classified
Triisodecylphosphite	Not classified

### Target Organs

Specific Target Organ Toxicity - Single Exposure: Respiratory system

### Aspiration Hazard

**Product:** Not relevant.

### Other effects:

There are no toxicological data available for the product as such. Avoid contact with the skin and eyes and inhalation of the product vapours.

## 12. Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

#### Fish

**Product:** No data available.

**Specified substance(s):**

Methyl methacrylate	LC 50 (Oncorhynchus mykiss (rainbow trout), 96 h): > 79 mg/l NOEC (Danio rerio (zebra fish), 32 d): 9,4 mg/l literature
triethyleneglycol dimethacrylate	LC 50 (Danio rerio (zebra fish), 96 h): 16,4 mg/l
N,N-bis-(2-hydroxypropyl)-p-toluidine	LC 50 (Danio rerio (zebra fish), 96 h): 17 mg/l

#### Aquatic Invertebrates

**Product:** No data available.

**Specified substance(s):**

Methyl methacrylate	EC 50 (Daphnia magna (Water flea), 48 h): 69 mg/l NOEC (Daphnia magna (Water flea), 21 d): 37 mg/l
N,N-bis-(2-hydroxypropyl)-p-toluidine	EC 50 (Daphnia magna (Water flea), 48 h): 28,8 mg/l

#### Chronic hazards to the aquatic environment:

## Fish

**Product:** No data available.

## Aquatic Invertebrates

**Product:** No data available.

### Specified substance(s):

triethyleneglycol  
dimethacrylate NOEC (Daphnia magna (Water flea), 21 d): 32 mg/l

## Toxicity to Aquatic Plants

**Product:** No data available.

### Specified substance(s):

Methyl methacrylate EC 50 (Selenastrum capricornutum (green algae), 72 h): > 100 mg/l  
NOEC (Selenastrum capricornutum (green algae), 72 h): > 100 mg/l

triethyleneglycol  
dimethacrylate EC 50 (Pseudokirchneriella subcapitata (green algae), 72 h): > 100 mg/l  
NOEC (Pseudokirchneriella subcapitata (green algae), 72 h): 18,6 mg/l

N,N-bis-(2-  
hydroxypropyl)-p-  
toluidine EC 50 (Desmodesmus subspicatus (green algae), 72 h): 245 mg/l

## Persistence and Degradability

### Biodegradation

**Product:** No data available.

### Specified substance(s):

Methyl methacrylate (14 d, OECD Test Guideline 301C): 94 % rapidly biodegradable

triethyleneglycol  
dimethacrylate (28 d): 85 % Readily biodegradable

N,N-bis-(2-  
hydroxypropyl)-p-toluidine (28 d, OECD TG 301 B): 39 % Inherently biodegradable

### BOD/COD Ratio

**Product:** No data available.

## Bioaccumulative potential

### Bioconcentration Factor (BCF)

**Product:** no evidence for hazardous properties

## Partition Coefficient n-octanol / water (log Kow)

**Product:** Log Kow: No data available.

**Mobility in soil:** no specific test data available

**Other adverse effects:** Prevent substance from entering soil, natural bodies of water and sewer systems.

## 13. Disposal considerations

- Disposal methods:** Waste is hazardous. It must be disposed of in accordance with the regulations after consultation of the competent local authorities and the disposal company in a suitable and licensed facility.
- 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

### International Regulations

#### IATA-DGR

UN/ID No. : UN 1866  
Proper shipping name : Resin solution STABILIZED  
Class : 3  
Packing group : II  
Labels : 3  
Packing instruction (cargo aircraft) : 364  
Packing instruction (passenger aircraft) : 353

#### IMDG-Code

UN number : UN 1866  
Proper shipping name : RESIN SOLUTION STABILIZED  
  
Class : 3  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-E  
Marine pollutant : no

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

Not applicable for product as supplied.

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 15. Regulatory information

### International regulations

#### Montreal protocol

Not applicable

#### Stockholm convention

Not applicable

#### Rotterdam convention

Not applicable

**Kyoto protocol**

Not applicable

**Inventory Status:**

Registration, Evaluation and Authorisation of Chemicals (REACH):	preregistered, registered or exempted
US TSCA Inventory:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
Canada NDSL Inventory:	Not on Inventory.
Australia AICS:	On or in compliance with the inventory
Japan (ENCS) List:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Philippines PICCS:	On or in compliance with the inventory
China Inv. Existing Chemical Substances:	On or in compliance with the inventory

**16. Other information, including date of preparation or last revision**

<b>Issue Date:</b>	18.06.2019
<b>Revision Date:</b>	06.06.2019: ARGLO_SUBTYP06.06.2019: ARGLO_EXCOMP06.06.2019: ARGLO_REG
<b>Version #:</b>	1.1
<b>Further Information:</b>	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.
<b>Revision Information:</b>	Changes since the last version are highlighted in the margin. This version replaces all previous versions.

**Disclaimer:**

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.