



**MATERIAL SAFETY DATA SHEET**  
**According to Regulation (EC) No 1907/2006 (REACH),**  
**(EC) No. 1272/2008 (CLP)**

**Product Name:** RCH 585

**Revision Date:** 20.08.2024  
**Revision No:** MSDS-RCH585-01

<b>1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING</b>	
<b>1.1. Identification of Substance or Preparation</b>	
Name of the Product	RCH 585
Product Description	Mixture
<b>1.2. Relevant Identified Uses and Uses Advised Against of the Product</b>	
Relevant Identified Uses	Solution of an acrylic polymer in methacrylic acid esters / acrylic acid ester.
Uses Advised Against	There are no uses advised against.
<b>1.3. Company / Undertaking Identification</b>	
Registered company name	ROADCHEM RESİN BOYA VE MAKİNA LTD. ŞTİ.
Address	Ata Mahallesi Tralles Bulvarı No:6Aj Efeler-AYDIN / TURKIYE
Telephone	+90 256 502 55 09
Emergency phone number	+90 533 133 07 01
E-mail address	info@roadchem.com.tr

<b>2. HAZARDS IDENTIFICATION</b>	
<b>2.1. Classification Of Material Or Mixture</b>	
<b>2.1.1. Classification According To Regulation (EC) No 1272/2008</b>	
Flam. Liq. 2	H225
Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE. 3	H335
<b>2.2. Label Elements</b>	
<b>2.1.1. Label According To Regulation (EC) No 1272/2008 [CLP2/GHS3]</b>	
<b>Product Identifier</b>	
<b>Hazard Component for Labeling</b>	
n-Butyl acrylate	
Methyl methacrylate	
n-Butyl methacrylate	
<b>Hazard Pictograms</b>	
GHS02,GHS07	 
<b>Warning Word</b>	DANGER
<b>Hazard Statements:</b>	
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

<b>H319</b>	Causes serious eye irritation.
<b>H335</b>	May cause respiratory irritation.
<b>Precautionary Statements:</b>	
<b>General</b>	
-	
<b>Prevention</b>	
<b>P210</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
<b>P233</b>	Keep container tightly closed.
<b>P240</b>	Ground/bond container and receiving equipment.
<b>P241</b>	Use explosion-proof electrical/ventilating/lighting/.../equipment.
<b>P242</b>	Use only non-sparking tool.
<b>P243</b>	Take precautionary measures against static discharge.
<b>P261</b>	Avoid breathing dust/fumes/gas/mist/vapour/spray.
<b>P264</b>	Wash with water thoroughly after handling.
<b>P271</b>	Use only outdoors or in a well-ventilated area.
<b>P272</b>	Contaminated work clothing should not be allowed out of the workplace.
<b>P280</b>	Wear protective gloves/protective clothing/eye protection.
<b>Response</b>	
<b>P302+P352</b>	IF ON SKIN: Wash with plenty of water.
<b>P303+P361+P353</b>	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
<b>P304+P340</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
<b>P305+351+338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
<b>P312</b>	Call a POISON CENTER/doctor/if you feel unwell.
<b>P321</b>	Specific treatment (see ... on this label.)
<b>P332+P313</b>	If skin irritation occurs: Get medical advice/attention.
<b>P333+P313</b>	If skin irritation or a rash occurs: Get medical advice/attention.
<b>P370+P378</b>	In case of a fire: Use proper material to extinguish.
<b>P362</b>	
<b>Storage</b>	
<b>P403+P233</b>	Store in a well-ventilated place. Keep container tightly closed.
<b>P403+P235</b>	Store in a well-ventilated place. Keep cool.
<b>P405</b>	Store locked up.
<b>Disposal</b>	
<b>P501</b>	Dispose of contents/container to [...] in accordance with local/regional/national/international regulation
<b>Supplemental Hazard Information (EU) Statements</b>	
No data available.	
<b>2.2.2. Special Rules For Supplemental Label Elements For Certain Mixtures</b>	
None	
<b>2.2.3. Additional Labeling</b>	
Not Applicable	
<b>2.3. Other Hazards</b>	
Substance meets the criteria for PBT/vPvB according to regulation (EC) No.1907/2006, Annex XIII: None.	

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

<b>3.1. Description Of The Substances</b>				
<b>Name</b>	<b>CAS<sup>5</sup> No</b>	<b>EC<sup>4</sup> No</b>	<b>Conc. %</b>	<b>Classification according to Regulation(EC) No 1278/2008 (CLP)</b>
n-Butyl acrylate	141-32-2	205-480-7	27.0-32.0	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 STOT SE. 3; H335
Methyl methacrylate	80-62-6	201-297-1	15.0-30.0	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE. 3; H335
n-Butyl methacrylate	97-88-1	202-615-1	5.0-10.0	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 STOT SE. 3; H335

  

<b>3.2. Additional Information</b>
<b>Specific Concentration Limits</b>
None
<b>M-Factor</b>
None
<b>Notes:</b>
Methyl methacrylate CAS No: 80-62-6, n-Butyl acrylate CAS No: 141-32-2, nButyl methacrylate CAS No: 97-88-1
<b>NOTE D</b>
Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a nonstabilised form. In this case, the supplier must state on the label the name of the substance followed by the words "non-stabilised".

<b>4. FIRST AID MEASURES</b>
<b>4.1. Description of First Aid Measures</b>
<b>4.1.1. General Notes</b>
As a general rule, in case of doubt or symptoms persist, always call a doctor.
<b>4.1.2. Following Inhalation</b>
<b>4.1.2. In the event of exposure by inhalation:</b>
If inhaled, move patient into the fresh air. If not breathing, give artificial respiration.
In case of dyspnea, give oxygen.
If the person is unconscious, place in the recovery position and call an ambulance.
<b>4.1.3. In the event of splashes or contact with eyes:</b>
Check for and remove any contact lenses.
Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.
Do not rub your eye.
Refer the patient to an ophthalmologist, in particular if there is any redness, pain or visual impairment.
<b>4.1.4. In the event of splashes or contact with skin:</b>
Remove contaminated clothing and wash the skin thoroughly for at least 15 minutes with soap and water or a recognized cleaner.

Consult a doctor if irritation persists.

#### **4.1.5. In the event of swallowing:**

In the event of swallowing, rinse the mouth with water and consult a doctor.

Keep still. DO NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person.

Maintain open airway.

Consult a doctor.

#### **4.1.6. Self-protection Of The First Aider**

Pay attention to self-protection.

### **4.2. Most Important Symptoms and Effects, Both Acute and Delayed**

#### **Potential acute health effects:**

Eye Contact: It may cause eye irritation.

Inhalation: May cause respiratory irritariton.

Skin Contact: It may cause skin irritation.

Ingestion: Harmful if swallowed.

### **4.3. Indication Of Any Immediate Medical Attention and Special Treatment Needed**

Treat Symptomatically.

## **5. FIRE – FIGHTING MEASURES**

### **5.1. Extinguishing Media**

Chemical powders, carbondioxide and other extinguishing gas are suitable for small first.

#### **Suitable extinguishing media:**

Special foams for polar liquid (known as alcohol resistant), powders, carbon dioxide

In the event of fire, use specifically suitable extinguishing agent.

#### **Unsuitable extinguishing media:**

Water is not generally recommended since it can be ineffective; however, it can be used successfully to cool containers exposed to fire and to disperse fumes.

A fire often produces a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

Prevent an effluent of fire – fighting measures from entering drains or waterways.

### **5.2. Special Hazards Arising From The Product**

There could be form of toxic gases occur in the event of fire.

Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

### **5.3. Special protective equipment for fire fighters:**

Fire-fighting personal are to be equipped with Self-Contained Breathing Apparatus with chemical resistant gloves.

Wear full chemical protective clothing.

## **6. ACCIDENTAL RELEASE MEASURES**

<b>6.1. Personal Precautions, Protective Equipment and Emergency Procedures</b>
<b>6.1.1. For Non-Emergency Personnel</b>
Avoid contact with eyes and skin of the product.
Use personnel protective equipment.
Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/flames/hot surfaces. – No smoking.
Use only non-sparking tools. Take precautionary measures against static discharge. Use explosion-proof electrical/ventilation/flammable/material.
In case of insufficient ventilation wear suitable respiratory equipment.
No action shall be taken involving any personnel risk or without suitable training.
If spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.
Consult the safety measures listed under headings 7 and 8.
<b>6.1.2. For Emergency Responders</b>
If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.
<b>6.2. Environmental Precautions:</b>
Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.
Prevent any material entering drains or waterways.
Use drums to dispose of waste recovered in accordance with applicable regulations (see heading 13).
If the product contaminates waterways, rivers or drains alert the relevant authorities in accordance with statutory procedures.
<b>6.3. Methods and Material For Containment and Cleaning Up</b>
<b>6.3.1. For Containment</b>
Control personal contact by using protective equipment as required.
Take up contaminated material and pass on for further processing.
Contain for disposal according to local/national regulations.
<b>6.3.2. For Cleaning Up</b>
Collect contaminated/extinguishing water.
Placespilled material in a container to dispose of non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in accordance with local regulations.
Do not allow it to interfere with water, soil, and sewage.
<b>6.3.3. Other Information</b>
Dispose of waste material according to local, state and federal regulations.
<b>6.4. Reference to Other Sections</b>
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.

<b>7. HANDLING AND STORAGE</b>
<b>7.1. Precautions For Safe Handling</b>
<b>Protective Measures:</b>
Wear personnel protection equipment. Refer to Section 8.
Do not eat, drink, smoke or sneeze at the workplace.
Dangerous areas must be limited and marked with appropriate warning and safety signs.
Always wash hands with soap and water after handling.
Working areas must be arranged in such a manner that they can be cleaned at all times.
Avoid the formation of aerosols (a mist-dispersed liquid in a gas).

Take off all contaminated clothing immediately and never use before washing.
Prevent the formation of flammable or explosive concentrations higher than the occupational exposure limits.
<b>Measure to Prevent Fire:</b>
See Section 5.
<b>Measure To Protect Environment:</b>
Dispose of water material according to local, state and federal regulations.
<b>Advice on general occupational hygiene:</b>
Use good occupational work practices.
Comply with the health and safety at work laws.
Remove contaminated clothing and protective equipment before entering eating areas.
<b>Storage:</b>
Store in the original container. Keep the container tightly closed in a cool, dry, well-ventilated place.
Avoid contact with incompatible materials.
Please give the priority usage for damaged packaged.
Do not store in unlabeled containers.
The product can be electrostatically charged; Wear antistatic shoes and clothes.
Keep away from all sources of ignition, heat and direct sunlight – do not smoke.
Protect from all kinds of fire and heat source, sunlight.
Keep away from incompatible materials and foodstuff containers.
<b>7.3. Specific End Uses</b>
No data available.

<b>8. EXPOSURE CONTROL / PERSONAL PROTECTION</b>	
<b>8.1. Control Parameters</b>	
Preventive industrial and medical examinations must be carried out according to the application area. Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.	
Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.	
<b>8.1.1. Occupational Exposure Limits</b>	
Methyl Methacrylate CAS No:80-62-6	TWA: 50 ppm STEL: 100 ppm
<b>8.2. Exposure Controls</b>	
Adequate ventilation should be used during processing. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.	
<b>8.2.1. Appropriate Engineering Controls</b>	
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location. Keep away from food, drink and animal feeding stuffs. Use personal protective equipment according to EN <sup>6</sup> standards. See Section 7.	
<b>8.2.2. Individual Protection Measures, Such As Personnel Protective Equipment</b>	
<b>8.2.2.1. Eye / Face Protection</b>	
In the event of heated product exposure, face shield must be used and remove contact lens as soon as practicable. (EN 166). Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.	
<b>8.2.2.2. Skin Protection</b>	
<b>Hand Protection:</b>	

Use butyl rubber or nitrile gloves in accordance with EN 374.
Use protective 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.
<b>Body Protection:</b>
If necessary, use work clothes in accordance with EN 465 or EN 467 and work shoes in accordance with EN 347 standards.
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
<b>8.2.2.3. Respiratory Protection</b>
Use respiratory protective if necessary.
Use a respiratory protective device with particlefilter/dust mask CEN with an approved standard if a risk assessment indicates this is necessary.
<b>8.2.3. Environmental Exposure Controls</b>
Legislation for the protection of the environment must be met in full.

<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>	
<b>9.1. General Information</b>	
Physical state	Liquid
Color	Transparent/Milky White
Odor	No data available
PH of the substance or preparation	No data available
Melting point (°C)	No data available
Flash point (°C)	10 °C
Flammable properties	Flammable
Oxidising properties	Not oxidizer
Explosion limits, %	Not explosive
Vapor pressure, (hPa) (20°C)	No data available
Vapor density	No data available
Autoignition point (°C)	No data available
Boiling point (°C)	No data available
Density	0.975 ± 0.05
Decomposition point (°C)	No data available
Water solubility	No data available
Solvent solubility	No data available
Oil solubility	No data available
Apparent porosity	No data available
Bulk density (kg/m <sup>3</sup> )	No data available
Viscosity (20°C)	30 ± 5 sn.
Water absorption	No data available
<b>9.2. Other Information</b>	
Other physical and chemical parameters	

<b>10. STABILITY AND REACTIVITY</b>	
<b>10.1. Reactivity</b>	Stable under recommended storage and handling conditions. (See Section 7.)
<b>10.2. Chemical Stability</b>	Stable under recommended storage and handling conditions. (See Section 7.)
<b>10.3. Possibility of Hazardous Reactions</b>	Polymerization with heat evolution may occur in the presence of radical forming substances ( e.g. peroxides), reducing substance, and/or heavy metal ions. Vigorous polymerization is possible when heated / exposed to heat.
<b>10.4. Conditions To Avoid</b>	Heat and ignition sources, aging, contamination, oxygen free atmosphere, ultraviolet light. If the permissible storage period and/or storage temperature is exceeded, the product may polymerize with heat evolution.
<b>10.5. Incompatible Materials</b>	Strong oxidizing agents reducing agents. Sulphur compounds heavy metal ions. Tertiar amine.
<b>10.6. Hazardous Decomposition Products</b>	Hydrocarbons, carbon monoxide and carbon dioxide.

<b>11. TOXICOLOGICAL INFORMATION</b>	
<b>11.1. Information On Toxicological Effects</b>	Based on our experience and the information available, adverse health effects are expected if not handled as recommended with suitable precautions for designed uses. The product has not been taken from products of similar composition.
<b>11.2. Acute Toxicity</b>	
<b>Methyl Methacrylate CAS No: 80-62-6</b>	
Oral	LD50 - 9400 mg/kg
Inhalation	LC50/4h - 16000 ppm
Dermal	LD50 > 5000 mg/kg
<b>11.3. Skin Corrosion/Irritation and Eye Damage/Irritation</b>	
Skin Corrosion/Irritation	Causes skin irritation
Eye Damage/Irritation	Causes serious eye irritation
<b>11.4. CMR Effects (Carcinogenity)</b>	
No data available.	
<b>11.6. Other Toxicological Effects</b>	
Allergic Effects	May cause an allergic skin reaction.
Effects on Repeated Doses Chronic Exposures	Precautions should be taken to minimize exposure
Sensitization	May cause an allergic skin reaction.
Developmental Toxicity (Teratogenicity)	No data available
Fertility	No data available
<b>11.7. STOT-Single/Repeated Exposures</b>	
STOT-Single Exposures	No data available
STOT-Repeated Exposures	No data available
<b>11.8. Symptoms Related To The Physical, Chemical and Toxicological Characteristics</b>	

In case of Inhalation	May cause respiratory irritation.
In case of skin contact	May cause skin irritation.
In case of eye contact	May cause eye irritation.
In case of ingestion	Harmful if swallowed
<b>11.9. Additional Toxicological Information</b>	
	Toxicological classifications are based on available knowledge and information
	The special effects to health are considered by taking into account the information in Section 3.

<b>12. ECOLOGICAL INFORMATION</b>	
<b>12.1. Toxicity</b>	
<b>Methyl Methacrylate CAS No: 80-62-6</b>	
Acute fish toxicity	LC50 (48h) – 350 mg/L
Acute daphnia and magna toxicity	EC50 (24h) – 69 mg/l
Acute algae toxicity	LC50 (96h) – 170 mg/L
<b>12.2. Persistence and Degradability</b>	
Abiotic Degradation	No data available
Physical- and Photo-chemical Elimination	No data available
Biodegradation Factor (BCF)	No data available
<b>12.3. Bioaccumulative Potential</b>	
Partition Coefficient N-Octanol/Water (log Kow)	No data available
Biodegradation Factor (BCF)	No data available
<b>12.4. Mobility Soil</b>	
Solubility in water	No data available
Known or predicted distribution to environmental compartments: Surface tension	No data available
Adsorption/Desorption	No data available
<b>12.5. Results of PBT and vPvB Assessment</b>	
According to Annex XIII of Regulation(EC) No: 1907/2006 product is not fulfilling PBT(persistent/bioaccumulative/toxic)/vPvB (very persistent/very bioaccumulative) criteria.	
<b>12.6. Other Adverse Effects</b>	
See Sections 6, 7, 13, 14 and 15.	

<b>13. DISPOSAL CONSIDERATIONS</b>	
<b>13.1. Waste Treatment Methods</b>	
<b>13.1.1. Product / Packaging Disposal</b>	
Note that properties of a material may change in use, and recycling or reuse may not always be appropriate	
When recycling of the product is not possible, disposal to landfill or incineration in accordance with all applicable government laws and regulations is recommended.	
Disposal according to local authority regulations.	
According to the European Waste Catalogue, waste codes are not product specific, but application specific. Waste codes should be assigned by the user.	

Contaminated packaging can be re-used after emptying and cleaning.

#### 13.1.2. Waste Treatment-Relevant Information

It can be scrapped.

When in compliance with the Environmental Protection Regulations.

#### 13.1.3. Sewage Disposal-Relevant Information

None

#### 13.1.4. Other Disposal Recommendations

Dispose of chemicals waste or in accordance with local regulations.

Follow all applicable local laws, rules and regulations regarding the proper disposal of this material.

If this product has been altered or contaminated with other hazardous materials, appropriate waste analysis may be necessary to determine proper method for disposal.

Dispose of waste according to applicable local, state and federal regulations.

### 14. TRANSPORT INFORMATION

	ADR <sup>7</sup> /RID <sup>8</sup>	ADNR <sup>9</sup>	IMDG <sup>10</sup>	ICAO <sup>11</sup> /IATA <sup>12</sup>
<b>TRANSPORTATION</b>	Road	River	Marine	Airways
<b>14.1. UN No.</b>	1866	1866	1866	1866
<b>14.2. UN Proper Shipping Name</b>	UN 1866, RESIN SOLUTION, Flammable, 3, II, 2 (D/E)			
Symbols				
HIN No	33	-	-	-
Tunnel Restriction Code	2 (D/E)	-	-	-
EMS	-	-	F-E; S-E	-
Packaging Code	F1	-	-	-
<b>14.3. Transport Hazard Class</b>	3	3	3	3
<b>14.4. Packaging Group</b>	II	II	II	II
<b>14.5. Environmental Hazards</b>	-	-	-	-
<b>14.6. Special Precautions For Users</b>	Not Available			
<b>14.7. Transport in Bulk According to Annex II of MARPOL and the IBC Code</b>	Not Available			

## 15. REGULATORY INFORMATION

### 15.1. The Substance Or Mixture Safety, Health and Environmental Legislation

No data available

#### 15.1.1. Hazard

CLP classification according to Annex II of CLP (Regulation (EC) No 1272/2008)

#### International Regulations

This Safety Data Sheet complies with the requirements of Regulation (EC) No. 1907/2006 (REACH<sup>13</sup>) and ISO 11014:2009.

This product is classified according to EU Directive GHS/CLP.

European Agreement concerning the International Carriage of Goods by Road (ADR 2015).

### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carriedout for this substance/mixture by the supplier.

## 16. OTHER INFORMATION

### 16.1. Other Information

For additional information regarding products please contact ROADCHEM Resin Boya ve Makine Ltd. Şti.

The above information complies with the 1907/2006 Directives and their amendments.

### 16.2. Relevant H- and EUH-Phrases

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

### 16.3. Legal Disclaimer

The purpose of the above information is to describe the products only in terms of health and safety requirements.

The information given should not, therefore, be construed as guaranteeing specificproperties or as specification.

Customers should satisfy themselves as to the suitabilityand completeness of such information provided for their own particular use.

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 above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

The information given is designed only as guidance for safe handling use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. Due to the many factors outside our control when using thisproduct, we cannot accept liability for any injury, accident, loss or damage caused thorough its use.

**Prepared by person(s) who is certified according to the regulation.**

**Contact e-posta: nezihsaglik@gmail.com**

**Certification number: TÜV/11.174.06**

**Effective date: 05.12.2022**

**Expiry date : 05.12.2027**

This Safety Data Sheet has been established in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national laws.

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Changes compared to the previous version are marked before the section number