


## SAFETY DATA SHEET

# DIALLYL DIMETHYL AMMONIUM CHLORIDE 65%

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

<b>1.1 Product identifier:</b>	
<b>CAS Number:</b>	7398-69-8
<b>EC number:</b>	230-993-8
<b>1.2 SYNONYMS</b>	<ul style="list-style-type: none"> <li>Diallyl dimethyl ammonium chloride</li> <li>N,N-Dimethyl-N-(2-propenyl)amine chloride</li> <li>Dimethyl diallyl ammonium chloride</li> <li>Diallyl dimethyl ammonium chloride</li> <li>DADMAC (abbreviation)</li> </ul>

### SECTION 2: Hazards identification:

<b>2.1 Classification of the substance or mixture:</b>	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
<b>2.2 Label elements:</b>	Labelling according to Regulation (EC) No 1272/2008 <ul style="list-style-type: none"> <li>Serious eye damage/eye irritation (Category 2A)</li> <li>Specific Target Organ</li> <li>Toxicity (Single Exposure)(Category 3)</li> </ul>
<b>Hazard Pictograms:</b>	
<b>Signal Word:</b>	Danger
<b>Hazard statements:</b>	<b>H319:</b> Cause serious eye irritation <b>H335:</b> May cause respiratory irritation <b>H315:</b> Cause skin irritation

<p><b>Precautionary Statements:</b></p>	<p><b>P261:</b> Avoid breathing dust/fume/gas/mist/vapours/spray.  <b>P264:</b> Wash contact area thoroughly after handling.  <b>P271:</b> Use only outdoors or in a well-ventilated area.  <b>P280:</b> Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  <b>P319:</b> Get medical help if you feel unwell.  <b>P321:</b> Specific treatment (see measures on this label).  <b>P302+P352:</b> IF ON SKIN: Wash with plenty of water.  <b>P304+P340:</b> IF INHALED: Remove person to fresh air and keep comfortable for breathing.  <b>P332+P317:</b> If skin irritation occurs Get medical help.  <b>P337+P317:</b> If eye irritation persists: Get medical help.  <b>P362+P364:</b> Take off contaminated clothing and wash it before reuse.  <b>P305+P351+P338:</b> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  <b>P405:</b> Store locked up.  <b>P403+P233:</b> Store in a well-ventilated place. Keep container tightly closed.  <b>P501:</b> Dispose of contents/container in accordance with local/regional/national/international regulations.</p>
<p><b>2.3 Other hazards:</b></p>	
<p><b>Inhalation:</b></p>	<p>can cause respiratory irritation, coughing, sneezing and sore throat.</p>

<b>Ingestion:</b>	can cause severe gastrointestinal irritation, nausea, vomiting, and abdominal pain.
<b>Skin Contact:</b>	can cause severe burns, irritation, and allergic reactions,
<b>Eye contact:</b>	May cause irritation, redness, pain and burning sensation.
<b>Chronic Exposure:</b>	may lead to long-term skin or respiratory irritation, sensitization, or damage to the lungs, liver, and other organs, depending on the level and duration of exposure.
<b>Aggravation of pre-existing conditions :</b>	may aggravate pre-existing respiratory conditions, such as asthma or chronic obstructive pulmonary disease (COPD), and skin conditions like dermatitis.

### SECTION 3: Composition/information on ingredients

<b>3.1 Chemical characterisation:</b>	Substances
<b>CAS No:</b>	Description: 7398-69-8 DIALLYL DIMETHYL AMMONIUM CHLORIDE
<b>Identification number(s):</b>	EC number: 203-998-3

### SECTION 4: First aid measures

<b>4.1 Description of first aid measures</b>	
<b>General information:</b>	
<b>After inhalation:</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician
<b>After skin contact:</b>	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes. Consult a physician.
<b>After eye contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

<b>After swallowing:</b>	Gargle, drink plenty of water and do <b>NOT</b> induce vomit. Consult a physician.
<b>4.2 Most important symptoms and effects, both acute and delayed:</b>	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.
<b>4.3 Indication of any immediate medical attention and special treatment needed:</b>	Treat symptomatically. Symptoms may be delayed.

## SECTION 5: Firefighting measures

<b>5.1 Extinguishing media</b>	Dry chemical, carbon dioxide, water spray, alcohol-resistant foam.
<b>5.2 Special hazards arising from the substance or mixture</b>	Containers may explode when heated. Fire exposed containers may vent contents through pressure relief valves. May expansion or decompose explosively when heated or involved in fire
<b>5.3 Advice for firefighters</b>	Wear fully protective suit, safety glasses and respiratory device . Do not use a solid water stream as it may scatter or spread fire.
<b>5.4 further information</b>	Use water spray to cool unopened containers.

## SECTION 6: Accidental release measures

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.
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<b>6.2 Environmental precautions:</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
<b>6.3 Methods and material for containment and cleaning up:</b>	Wore chemical protection suit and self-contained breathing apparatus (SCBA). Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

## SECTION 7: Handling and storage

<b>7.1 Precautions for safe handling</b>	For use in are with adequate ventilation. Do not use in confined spaces. Electrostatic discharge protection. Do not let flame ignition Avoid contact with skin and eyes
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks.
<b>Requirements to be met by storerooms and receptacles:</b>	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
<b>7.3 Specific end uses</b>	no data available

## SECTION 8: Exposure controls/personal protection

<b>8.1 Control parameters</b>	
<b>Additional information about design of technical facilities:</b>	A system of local and general exhaust is recommended
<b>8.2 Exposure controls</b>	
<b>Appropriate engineering controls</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<b>Personal protective equipment:</b>	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
<b>General protective and hygienic measures:</b>	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	<b>Respiratory protection:</b> Required.
<b>Protection of hands:</b>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands
	<b>Eye protection:</b> Required
<b>Protection of Body:</b>	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

## SECTION 9: Physical and chemical properties

<b>9.1 Information on basic physical and chemical properties</b> <b>General Information</b>	
<b>Appearance: Form:</b>	liquid
<b>Colour:</b>	Colourless to light yellow
<b>Odour:</b>	No data available
<b>pH-value:</b>	6-7
<b>Melting point/Melting range:</b>	100°C – 105°C
<b>Boiling point/Boiling range:</b>	100°C.

<b>Flammability (solid, gaseous):</b>	Not applicable
<b>Ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Self-igniting:</b>	No data available
<b>Flash point:</b>	95°C in closed cup
<b>Danger of explosion:</b>	Not applicable
<b>Explosion limits: Lower:</b>	No data available
<b>Explosion limits: Upper:</b>	No data available
<b>Vapour pressure:</b>	23.8 mmHg at 25°C
<b>Density at 20 °C:</b>	1.1 g/cm <sup>3</sup> (approx.)
<b>Relative density:</b>	No data available
<b>Vapour density:</b>	No data available
<b>Evaporation rate:</b>	No data available
<b>Solubility in / Miscibility with- water at 20 °C:</b>	Very soluble
<b>Partition coefficient:(n- octanol/water)</b>	-2 to -3,
<b>Viscosity:</b>	10 to 50 cP at 20°C (approx)

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	Contact with incompatible substances can cause decomposition or other chemical reactions.
<b>10.2 Chemical stability</b>	Stable under proper operation and storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen
<b>10.4 Conditions to avoid</b>	Incompatible materials, heat, flame and spark.
<b>10.5 Incompatible materials</b>	Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide
<b>10.6 Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

<b>11.1 Information on toxicological effects</b>	
<b>Acute Toxicity:</b>	<b>LD50</b> (Oral, Rat) : 10000 mg/kg <b>LD50</b> (Dermal, Rabbit) : no data available <b>LC50</b> (Inhalation Rat) : no data available
<b>Skin corrosion/Irritation:</b>	Causes skin irritation(Category 2)
<b>Serious eye damage/irritation:</b>	Causes serious eye irritation(Category 2A)
<b>Respiratory damage/irritation:</b>	No data available
<b>Ingestion:</b>	No data available
<b>Germ cell mutagenicity:</b>	No data available
<b>Carcinogenicity:</b>	The material is Not listed under IARC and NTP
<b>Reproductive toxicity:</b>	no data available
<b>Specific target organ toxicity - single exposure:</b>	No data available
<b>Specific target organ toxicity - repeated exposure:</b>	No data available
<b>Aspiration hazard:</b>	No data available
<b>Signs and Symptoms of Exposure:</b>	Refer section 2.3
<b>11.2 Additional toxicological information</b>	
<b>Aquatic Toxicity:</b>	No data available
<b>Biodegradability:</b>	Moderately biodegradable

## SECTION 12: Ecological information

<b>12.1 Toxicity</b>	No data available
<b>Aquatic toxicity:</b>	
<b>12.2 Persistence and degradability:</b>	No data available
<b>12.3 Bioaccumulative potential:</b>	No data available
<b>12.4 Mobility in soil:</b>	No data available
<b>12.5 Other adverse effects</b>	No data available



## SECTION 13: Disposal considerations

13.1 Waste treatment methods	
<b>Uncleaned packaging Recommendation:</b>	dispose of in accordance with local hazardous waste regulations Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
<b>Recommended cleansing agents:</b>	Refer to Waste chemicals and Contaminated packaging.

## SECTION 14: Transport information

<b>14.1 UN-Number · ADR, ADN, IMDG, IATA:</b>	None
<b>14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:</b>	Not applicable
<b>14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :</b>	Not applicable
<b>14.4 Packing group · ADR, IMDG, IATA:</b>	Not applicable
<b>14.5 Environmental hazards:</b>	Yes
<b>14.6 Special precautions for user</b>	No data available

## SECTION 15: Regulatory information

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU</b>	Directive 2012/18/EU, under that this substance is not classified as harmful substances
<b>Named dangerous substances</b>	This substance is not listed in the annex 1 to the directive.
<b>15.2 Chemical safety assessment:</b>	Chemical assessment has been carried out under <b>REACH</b> regulation.

## SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all

information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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