Safety Data Sheet compliant with OSHA 29 CFR 1910.1200 HCS

SECTION 1: Identification of substance / mixture and of the Supplier

(a) Product identifier

GHS Product identifier: Maxinol 4041

(b) Other means of Identification

Alternative names: Acrylic /maleic copolymer sodium salt
CAS No.: 52255-49-9
EC no.: 610-814-3

(c) Recommended use of chemical and restrictions on use

Recommended Use: Dispersant /deflocculant for textile auxiliaries, detergents, minerals and ceramics etc.
Restriction on use: None

(d) Details of the supplier of the safety data sheet

Supplier: Aquapharm Chemical Ltd., 9th & 10th Floor, Amar Synergy 12 B, Sadhu Vaswani Road, Pune 411001, INDIA
Telephone and Fax: Tel: +91 20 66090000, +91 2145 251 090/1/2, Fax: +91 20 2605 3396

Contact details of person responsible for SDS: techsupport@aquapharm.net, +91 98609 90014

(e) Emergency contact for US: Domestic North America: Chemtrec: 1-800-424-9300; International: Chemtrec: 1-703-527-3887
Emergency contact for rest of world: Tel.: Chemtel: +1-813-248-0585 (MIS0006730); e-mail: ers@chemtelinc.com
Opening Hours: 24 hours
Other Comments (e.g. Language of the phone service): English

SECTION 2: Hazards Identification

(a) GHS Classification of the substance/mixture and any national or regional information

Classification according to GHS: Not classified

(b) GHS Label Elements

Hazard Pictogram: None
Signal Word: None
Hazard Statements: None
Precautionary Statements: None

(c) Other Hazards: None

SECTION 3: Composition/Information on Ingredients

(a) Chemical Identity: Polymer

Substance Name	EC No.	CAS No.	GHS Classification	% Composition
Acrylic /maleic copolymer, sodium salt	610-814-3	52255-49-9	Not Classified	38 – 42 %

SECTION 4: First Aid Measures

(a) Description of necessary first aid measures

General Notes: Immediately call a POISON CENTER or doctor/physician.
Inhalation: Remove patient to fresh air, keep warm and at rest, administer oxygen if necessary.
Skin Contact: Thoroughly wash the contaminated skin. Remove the contaminated clothes and shoes. Consult a doctor if symptoms develop. Wash the clothes and shoes before reusing them
Eye Contact: Immediately wash the eyes thoroughly, opening eyelashes from time to time. Check if the victim is wearing contact lenses; if yes, remove them. Wash for at least 10 minutes. Consult a doctor in case of irritation.
Ingestion: Immediately consult a physician for advice.

(b) Most important symptoms and effects, both acute and delayed

Refer to section 11 for more information on health effects and symptoms.

(c) Indication of immediate medical attention and special treatment needed, if necessary: None specific

SECTION 5: Fire fighting measures

(a) Extinguishing media:

Suitable extinguishing media: Water spray, foam, dry chemical, or carbon dioxide

Unsuitable extinguishing media: None known.

(b) Special Hazards arising from the material: Decomposes and gives irritant fumes

Hazardous Combustion Product: Carbon dioxide, carbon monoxide

(c) Special protective equipment and preacautions for fire fighters: Wear self-contained breathing apparatus and suitable protective clothing.

SECTION 6: Accidental release measures

(a) Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Protective Equipment: Use personal protection recommended in section 8

Emergency Procedures: Evacuate the spill area safely to permit authorised personnel to handle the spill.

For Emergency Responders: Emergency responders must wear the proper personal protective equipment (and have appropriate fire-suppression equipment) suitable for the situation to which they are responding.

(b) Environmental precautions:

Keep out of drains and watercourses. Use containment walls to contain, reclaim or safely dispose off spills. Follow local regulations for safe disposal of contaminated absorbent materials and containers. Wash spill areas with water.

(c) Methods and material for containment and cleaning up:

(i) Recovery: Recover as much of the product as possible. Absorb the product onto porous material. Transfer the product into a spare container: - suitably labelled. Then take the emergency containers to an area reserved for subsequent recycling or disposal.

(ii) Neutralization: Neutralize with: - calcium hydroxide. - sodium bicarbonate Absorb spillage with: - diatomaceous earth- sand or inert absorbent.

(iii) Cleaning/Decontamination: Wash non-recoverable remainder with large amounts of water.

(iv) Disposal: Do NOT discharge into drains.

SECTION 7: Handling and storage

(a) Precautions for safe handling:

Protective measures: Handle in accordance with good industrial hygiene and safety practices as mentioned in section 8. These practices include using appropriate personal protection, avoiding unnecessary exposure and removal of material from eyes, skin and clothing. Do not eat, drink or smoke when handling this product. Wash thoroughly after handling, avoid breathing vapour or mist. Emptied containers retain vapour and product residue. Observe all recommended safety precautions until container is cleaned, reconditioned or destroyed. The reuse of this material's container for non-industrial purposes is prohibited and any reuse must be in consideration of the data provided in this material safety data sheet.

Advice on general occupational Hygiene: Keep personal protective equipment in a clean place, away from the work area. Use clean and correctly maintained personal protective equipment. Always wash your hands after handling the product.

Do NOT eat or drink in the workplace.

(b) Conditions for safe storage including any incompatibilities:

Technical measures and storage conditions: Take all necessary precautions to avoid the accidental release of the product outside due to the rupture of containers or transfer systems. Ensure there is a suitable retention system. Storage facilities should be dry.

Packing Material:

Suitable packing and storage material: Original containers, SS 316L or metal containers with glass, PVC, PP, PE or GRP lining.

Unsuitable packing and: Do not store in metal containers such as carbon steel, aluminium etc.

storage material	
Requirements for storage rooms and vessels	Store in cool and dry place under close shade only.
Storage Class	12
Further information on storage conditions	Shelf life 24 months

SECTION 8: Exposure control / personal protection

(a) Control Parameters

No specific occupational exposure limit has been established.

(b) Appropriate engineering controls — No specific additional engineering controls are required. Provide good natural or artificial ventilation.

(c) Personal Protection equipment

Eye / face protection	Use face shield and/or chemical goggles. Have eye wash facilities immediately available at any location where eye contact can occur.
Skin protection Hand Protection: Other skin protection:	Wear gloves, suitable materials include PVC, Nitrile Rubber. Wear suitable protective clothing, wash thoroughly after handling. Minimize skin contamination by following good industrial practice.
Respiratory protection	Avoid breathing vapour. Use approved respiratory protection equipment when air borne exposure is excessive. Consult respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer. In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

Molecular weight	Approx. 70000
Appearance	Clear liquid
Colour	Yellow liquid
Odour	Characteristic
Odour Threshold	Not available
pH	7.0 to 9.0 (10% solution)
Freezing point/range	<-8 ^{0}C
Initial boiling point / range	No data available
Flash point	No data available
Evaporation rate	Not available
Flammability (solid, gas)	Non flammable aqueous solution
Upper/lower flammability or explosive limit	Not applicable
Vapour Pressure	Not available
Vapour Density	No available
Density@ 25C	1.24 to 1.30 gm/ml
Solubility(ies)	Miscible in water
Partition coefficient (N-Octanol / Water)	Not available
Auto ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	1000 to 2000 cPs at 25 deg C

SECTION 10: Stability and reactivity

(a)	Reactivity	No data
(b)	Chemical Stability	Stable under normal conditions of storage and transport
(c)	Possibility of hazardous reactions	No hazardous polymerisation occurs
(d)	Conditions to avoid	None specific
(e)	Incompatible materials	Alkalis, metals and oxidising agents
(f)	Hazardous decomposition products	Carbon monoxide, carbon dioxide

SECTION 11: Toxicological information

(a) Likely routes of exposure: No significant hazards associated with this material

(b) Potential Health effects

Eyes	Not irritating
Skin	Not irritating. No more than slightly toxic if absorbed.
Inhalation	No data available
Ingestion	No more than slightly toxic if swallowed. Significant adverse health effects are not expected to develop if only small amounts (less than a mouthful) are swallowed

(c) Information on toxicological effects

Acute oral toxicity	Species: Rat Route of administration: Oral LD50:> 5000 mg/kg
Acute inhalation toxicity	No data available
Acute dermal toxicity	No data available
Skin irritation	Species; Rabbit Method: OECD Guideline 404 Not irritating
Serious eye damage / irritation	Species: Rabbit Result: Not irritating Symptoms: severe discharge and slight erythema have been noted
Respiratory irritation	No data available
Sensitisation	Guinea pig Maximization test: Not sensitizing
Repeated dose toxicity	Species: Rat Duration: 90 d Route of administration: Oral Method: OECD Guideline 408 NOAEL> 16,000 ppm
Germ cell mutagenicity	Cytogenetic assay Result: Negative No genotoxic potential
Carcinogenicity	No data available
Reproductive toxicity	Species: Rat Subchronic study No effects No reprotoxic potential
Specific target organ toxicity – single exposure (STOT SE)	No data available
Specific target organ toxicity – repeated exposure (STOT RE)	No data available
Aspiration hazard	No data available

SECTION 12: Ecological information

(a) Ecological Toxicity

Aquatic toxicity on Fish:
Species: *Brachydanio rerio*
Method: OECD 203
Duration: 96 hrs
LC50: >100 mg/l

Aquatic toxicity on Invertebrates:

Species: *Daphnia magna*
Method: OECD 202
Duration: 48 hrs
EC50: >500 mg/l

Aquatic toxicity on Alage:
Species: *Chlorella vulgaris*
Method: OECD 201
Duration: 96 hrs
EC50: >500 mg/l

(b)	Persistence and Degradability	COD reduction > 70% (OECD 303A) Not readily biodegradable
(c)	Bioaccumulative potential	Not expected to bioaccumulate
(d)	Mobility in Soil	No data available
(e)	Other adverse effects	Environmental fate: Product is readily adsorbed on activated sludge and eliminated from water.

SECTION 13: Disposal considerations

(a)	Waste treatment methods	All local and national regulations should be followed. Consult regulatory officials for disposal requirement. For small quantities neutralize with lime or soda ash and flush away with plenty of water. For large quantities send to special waste disposal system and burn in proper incinerator. This product should not be dumped in public storage and sewers / waterways.
(b)	**Packaging**	
	Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible
	Special precautions	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers
(c)	US EPA RCRA Status	This material when discarded is not a hazardous waste as that term is defined by the Resource, Conservation and Recovery Act (RCRA), 40 CFR 261.
(d)	US EPA RCRA hazardous waste number	Not applicable
	Compound/Characteristic	Not applicable
(e)	Disposal considerations	Incineration Recycle

SECTION 14: Transport information

	DOT/TDG/ ADR/RID/GGVSE	**(IMDG-Code/GGVSee**	**ICAO-IATA/DGR**
(a) UN Number	Not Regulated	Not Regulated	Not Regulated
(b) UN Proper Shipping Name	Not applicable	Not applicable	Not applicable
(c) Transport Hazard Class	Not applicable	Not applicable	Not applicable
(d) Packing Group	Not applicable	Not applicable	Not applicable
(e) Environmental hazards	No	No	No
(f) Transport in bulk according to Annex II of MARPOL 73/78	Not available	Not available	Not available

and the IBC Code			
(g) Special precautions for user	Not applicable	Not applicable	Not applicable

SECTION 15: Regulatory information

Inventory Status	All components are on the following inventories: US TSCA, Chinese IECSC, New Zealand NZIoC, Australian AICS, Canadian DSL, Korean KECI, Philippine PICCS and Taiwan TCSI
Canadian WHMIS classification	Not regulated
HAZCOM Standard Status	This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Stockholm convention on Persistant Organic Pollutants (POPs)	None of the componants are listed in POPs.
Montreal Protocol on substances that deplete ozone layer	None of the componants are listed in list of controlled substances as per Montreal Protocol.
Rotterdam Convention	None of the components are covered under Rotterdam Convention
SARA Hazard Notification: Hazard Categories Under Title III Rules (40 CFR 370)	
SARA Section 311/312 Hazard Categories	None
SARA Title III Section 302 Extremely Hazardous Substances	None
SARA Title III Section 313 Toxic Chemicals	None
US EPA CERCLA Hazardous Subtances (40 CFR 302)	None
CERCLA Reportable Quantity	Not applicable
California proposition 65	To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

SECTION 16: Other information

Procedure used to derive the classification according to Regulation OSHA 29 CFR 1910.1200 HCS

Abbreviations and acronyms

LD50: Median lethal dose
LC50: Lethal Concentration
EC50: Half maximal effective concentration
NOEC: No Observed Effect Concentration
NOAEL: No observed adverse effect level
BCF: Bioconcentration Factor
STEL: Short term exposure limit
TLV: Threshold limits
TWA: time weighted average
ADNR: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route
IATA: International Air Transport Association
IMDG: International Maritime Dangerous Goods Code

Revision History
Last Revision Date -

Reason for Update -

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For all purpose the English version is final ***RA/F/14/Version GHS***