1. Product and Company Identification

Material name	**Padaine**
Revision date	26-05-2019
Chemical class	Cocamidopropyl betaine
Cas No.	61789-40-0
Manufacturer	Padideh Shimi Gharb Co. No.5.21rd St, Vozara St,Argentina Sq, Tehran, Iran +98-21-43413000

2. Hazards Identification

Health hazards	
Serious eye damage/eye irritation	Category 1
Hazardous to the aquatic environment, acute hazard	Category 2
Label elements	
Hazard statement	Causes serious eye damage. Toxic to aquatic life. Harmful to aquatic life with long lasting effects
Prevention	Avoid release to the environment. Wear eye/face protection.
Response	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition / Information on Ingredients

Components	Percent
Cocamidopropyl betaine	20 - 30
Sodium Chloride	4 - 6

4. First Aid Measures

First aid procedures	
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Ingestion	Rinse mouth thoroughly. Call a POISON CENTER or doctor/physician if you feel unwell. Do not induce vomiting without advice from poison control center.
Notes to physician	Symptoms may be delayed.
General advice	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties	Not flammable by OSHA criteria. Not combustible by OSHA criteria.
Extinguishing media	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Water. Do not use water jet as an extinguisher, as this will spread the fire.
Protection of firefighters	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Protective equipment and precautions for firefighters	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the MSDS.
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.
Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Collect spillage.
Methods for cleaning up	Ventilate the contaminated area. Extinguish all flames in the vicinity. Wear appropriate protective

equipment and clothing during clean-up. Prevent product from entering drains.
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Do not allow material to contaminate ground water system. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Never return spills to original containers for re-use. For waste disposal, see section 13 of the MSDS.

7. Handling and Storage

Handling	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Do not use in areas without adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the environment. Do not empty into drains.
Storage	Keep away from heat, sparks and open flame. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the MSDS).

8. Exposure Controls / Personal Protection

Engineering controls	Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency shower must be available when handling this product.
Personal protective equipment	
General	Use personal protective equipment as required.
Eye / face protection	Wear eye/face protection. Wear safety glasses with side shields (or goggles). Do not get in eyes. Eye wash fountain is recommended.
Skin protection	Wear appropriate chemical resistant clothing. Chemical resistant gloves.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits

	have not been established), an approved respirator must be worn.
General hygiene considerations	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties

Appearance	Clear liquid
Color	Yellow
Physical state	Liquid.
pH	5 – 7 (5% in H2O)
Freezing point	17.6 °F (-8 °C)
Flash point	> 201 °F (> 93.9 °C)
Flammability limits in air, upper, % by volume	NOT APPLICABLE.
Specific gravity	1.030 (@25 C)

10.Stability & Reactivity

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Strong acids.
Hazardous decomposition products	Upon decomposition, this product may yield sulfur dioxide and oxides of sulfur.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.

11.Toxicological Information

Information on likely routes of exposure	
Ingestion	Expected to be a low ingestion hazard.
Inhalation	Prolonged inhalation may be harmful
Skin contact	No adverse effects due to skin contact are expected
Eye contact	Causes serious eye damage.
Sensitization	Not classified.
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive effects	This product is not expected to cause reproductive or developmental effects.

12.Ecological Information

Ecotoxicity	Toxic to aquatic life. Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.
Persistence / degradability	Readily biodegradable.
Bioaccumulation / Accumulation	No data available.

Mobility in environmental media	No data available for this product.

13.Disposal Considerations

Waste codes	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal instructions	Dispose in accordance with all applicable regulations
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14.Transport Information

Not available

15.Regulatory Information

Not available

16.Other Information

Recommended restrictions	For industrial use only.
NFPA ratings	Health: 2 Flammability: 1 Instability: 0
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