



Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Material Type: IPA-free Texturizer for Mono-Silicon
Synonyms: Main Components: Nucleating agent, Surface active agent, Catalyst, Dispersing agent, Antifoaming etc.
Product Names: HJT n-Si wafer texturizing additive

SKU: SP23075

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: additive for n-type HJT silicon wafer texturing to produce smooth pyramids size ranging between 2-4 um for lowest reflectance and minimized charge recombination.

1.3 Details of the supplier of the safety data sheet

Company:
Accurate Atom Inc.
1425 W. Lincoln HWY
DeKalb, Illinois, 60115
www.accurateatom.com
Tech@accurateatom.com

1.4 Emergency telephone number

Emergency Contact: Accurate Atom
Telephone: (630) 659-5999

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Skin Sensitization – Alkalescence, corrosive, and avoid skin contact;
Aquatic Chronic - Direct discharge into the water can cause an ecological impact

2.2 GHS Label elements, including precautionary statements

Classification of the substance or mixture

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

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Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Ingredients	Typical Composition	C.A.S. Number	EINECS/EC Label No.
water	80%		
Nucleating agent	5%	1310-73-2	215-185-5
Surface active agent	5 %	56-81-5	200-289-5
Catalyst	6%	144-62-7	205-634-3
Dispersing agent	2%	9004-57-3.	
Anti-foaming agent	2%	9006-65-9	

4. FIRST AID MEASURES

4.1 Description of first aid measures

Skin: Rinse with running water for 3-5 minutes
Eyes: Raise the eyelid, rinse with running water or saline for 3-5 minutes. If there is any other discomfort, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: Rash
Eye contact: Redness

5. FIREFIGHTING MEASURES

5.1 Suitable Extinguishing Media

Any, type to be selected according to materials in the immediate neighborhood.

5.2 Special Risks

Non-Flammable and non-explosive. Extinguish surrounding fires with appropriate methods

5.3 Special Protective equipment for fire fighting

None needed. Wear protective equipment if required for other materials within immediate vicinity.

5.4 NFPA Rating

Health hazard: 2
Fire Hazard: 0
Reactivity Hazard: 0

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Contaminated work clothing should not be allowed out of the workplace. Use personal protective equipment as required. Wash hands, and face thoroughly after handling.

6.2 Environmental precautions

Spillages and uncontrolled discharges must be prevented from entering waterways.

6.3 Methods and materials for containment and cleaning up

Emergency action: Small amount of leakage: absorb with sand, vermiculite, or other inert materials. It can also be rinsed with a large amount of water, diluted with washing water, and put into the waste water system. Large amount of leakage: use pump to transfer to tank truck or special collector or transport to waste disposal site for recycling treatment.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear suitable protective clothing and gloves. Contaminated work clothing should not be allowed out of the workplace.

7.2 Conditions for safe storage, including any incompatibilities

Storage: indoor storage, temperature 0-40 Degree Celcius, humidity 30-80% RH. Prevent extended and direct sunlight exposure.

8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls

Mechanical extraction ventilation may be required if user operations change it to other physical or chemical forms, whether as end products, intermediates or fugitive emissions, which are inhalable. Avoid repeated skin contact.

PPE

Respiratory protection: If required, use an approved respirator with particulate filters.

Eye protection: If required.

Hand & Skin Protection: Wear suitable protective clothing and gloves, which should be selected specifically for the working place, depending on concentration and quantity of the hazardous material (overalls and leather/rubber gloves). Wash skin thoroughly after handling and before eating, drinking or smoking. Change contaminated clothing frequently. Launder clothing and gloves as needed. Use of skin-protective barrier cream advised.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and properties: Ruby Red Liquids.

Physical state at 20 ⁰ C and 101.3 kPa	Ruby Red Liquid
Flash point	Non-flammable
Boiling point	>/= 100 Celsius
Explosion limit	Non-explosive
Solubility	soluble
PH	>/= 10.5
Self-ignition temperature	Non -flammable

10. STABILITY AND REACTIVITY

10.1 Chemical stability

Stable under normal conditions. It will neutralize with acid at room temperature.

11. TOXICOLOGICAL INFORMATION

As a mixture the toxicological properties of this product are unknown. The toxicology of the reported ingredients are summarized below.

11.1 Acute Toxicity:	No toxicity
11.2 Corrosivity/Irritation	No irritation
11.3 Chronic Toxicity	None
11.4 Reproductive Toxicity	None
11.5 Carcinogenicity:	None
11.6 Mutagenicity:	None

12. ECOLOGICAL INFORMATION

12.1 Toxicity

May cause long lasting harmful effects to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recover or recycle if possible. Dispose of contents in accordance with local, state or national legislation.

14. TRANSPORT INFORMATION

International Maritime Dangerous Goods Code	Not Regulated. Packing 100 ML plastic bottle filling. Avoid exposure to direct sunlight, rain and high temperature.
International Civil Aviation Organization Technical Instructions for the Carriage of Dangerous Goods by Air	Not Regulated
U.S. Dept. of Transportation Regulations	Not Regulated
Canadian Transportation of Dangerous Goods Act	Not Regulated
European Agreement Concerning the International Carriage of Dangerous Goods by Road	Not Regulated

15. REGULATORY INFORMATION

15.1 Regulatory info. The product is a general industrial product.

Disclaimer This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product