

**SAFETY DATA SHEET**

Revision Date: 11/09/2016

Print Date: 11/11/2016

SDS Number: R0704378

Version: 1.2

Aquacat™ IC Clear Cationic Solution  
™ Trademark, Ashland or its subsidiaries, registered  
in various countries  
431172

29 CFR 1910.1200 (OSHA HazCom 2012)

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION****Product identifier**

Trade name : Aquacat™ IC  
Clear Cationic Solution  
™ Trademark, Ashland or its subsidiaries, registered in  
various countries

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

|  |   |
|--|---|
| <b>Details of the supplier of the safety data sheet</b><br>Ashland<br>P.O. Box 2219<br>Columbus, OH 43216<br>United States of America (USA)<br>614-790-3333<br><br>EHS Customer Requests@ashland.com | <b>Emergency telephone number</b><br>1-800-ASHLAND (1-800-274-5263)<br><br><b>Regulatory Information Number</b><br>1-800-325-3751<br><br><b>Product Information</b><br>614-790-3333 |
|--|---|

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

**GHS label elements**

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous components**

| Chemical name               | CAS-No.    | Classification      | Concentration (%) |
|-----------------------------|------------|---------------------|-------------------|
| CATIONIC GUAR GUM, MODIFIED | 65497-29-2 | Eye Irrit. 2A; H319 | 7.4999            |



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### SECTION 4. FIRST AID MEASURES

- General advice : No hazards which require special first aid measures.
- If inhaled : If breathed in, move person into fresh air.  
 If unconscious, place in recovery position and seek medical advice.  
 If symptoms persist, call a physician.
- In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : Remove contact lenses.  
 Protect unharmed eye.
- If swallowed : Do not give milk or alcoholic beverages.  
 Never give anything by mouth to an unconscious person.  
 If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:  
 stomach or intestinal upset (nausea, vomiting, diarrhea)  
 irritation (nose, throat, airways)
- Notes to physician : No hazards which require special first aid measures.

### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
 Water spray  
 Foam  
 Carbon dioxide (CO2)  
 Dry chemical
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion : carbon dioxide and carbon monoxide

## Version: 1.2

Aquacat™ IC Clear Cationic Solution  
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Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Other information : Comply with all applicable federal, state, and local regulations.

Materials to avoid : No materials to be especially mentioned.

### Hazardous components without workplace control parameters

| Components         | CAS-No.    |
|--------------------|------------|
| CATIONIC GUAR GUM, | 65497-29-2 |



## SAFETY DATA SHEET

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Version: 1.2

MODIFIED

**Engineering measures** : General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Skin and body protection : Wear as appropriate:  
 Safety shoes  
 Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures : General industrial hygiene practice.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid  
 Colour : yellow  
 Odour : odourless  
 Odour Threshold : No data available  
 pH : 5 - 7  
 Melting point/freezing point : 32 °F / 0 °C  
 Boiling point/boiling range : 212 °F / 100 °C  
 Flash point : Not applicable  
 Evaporation rate : No data available

**SAFETY DATA SHEET**

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SDS Number: R0704378

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431172

Version: 1.2

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : > 1 g/cm<sup>3</sup>

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : 400 cps (20 °C)

Viscosity, kinematic : No data available

Oxidizing properties : No data available

Solids in Solution : 10 %(m)

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Product will not undergo hazardous polymerization.

Conditions to avoid : excessive heat  
UV light.

**SAFETY DATA SHEET**

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Version: 1.2

Freezing temperatures.

Exposure to sunlight.

Incompatible materials : Acids  
Oxidizing agents

Hazardous decomposition products : carbon dioxide and carbon monoxide  
Hydrocarbons  
Nitrogen oxides (NOx)

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**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure : Inhalation  
Skin contact  
Eye Contact  
Ingestion

**Acute toxicity**

Not classified based on available information.

**Skin corrosion/irritation**

Not classified based on available information.

**Components:**

CATIONIC GUAR GUM, MODIFIED:

Result: No skin irritation

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Result: Slight, transient irritation

Remarks: see user defined free text

Remarks: Unlikely to cause eye irritation or injury.

**Components:**

CATIONIC GUAR GUM, MODIFIED:

Result: Irritating to eyes.

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**



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 431172

Version: 1.2

Not classified based on available information.

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

### Further information

#### Product:

Remarks: No data available

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

### Components:

CATIONIC GUAR GUM, MODIFIED:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 100 mg/l  
 Exposure time: 96 h  
 Test Type: static test  
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 54 mg/l  
 Exposure time: 48 h  
 Test Type: static test  
 Method: OECD Test Guideline 202  
 GLP: yes

Toxicity to algae : NOEC (Blue-green algae (Anabaena flos-aquae)): > 100 mg/l  
 Exposure time: 72 h  
 Test Type: Growth inhibition  
 Method: OECD Test Guideline 201  
 GLP: yes

### Persistence and degradability

#### Components:

CATIONIC GUAR GUM, MODIFIED:

Biodegradability : Result: Readily biodegradable.  
 Biodegradation: 95 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301D  
 GLP: yes

**SAFETY DATA SHEET**

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Remarks: Information given is based on data obtained from  
similar substances.

No data available

**Bioaccumulative potential****Components:**

No data available

**Mobility in soil****Components:**

No data available

**Other adverse effects**

No data available

**Product:**

Additional ecological : No data available  
information

**Components:****SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

General advice : Dispose of in accordance with all applicable local, state and  
federal regulations.

Contaminated packaging : Empty remaining contents.

**SECTION 14. TRANSPORT INFORMATION****International transport regulations****REGULATION**

| ID NUMBER | PROPER SHIPPING NAME | *HAZARD<br>CLASS | SUBSIDIARY<br>HAZARDS | PACKING<br>GROUP | MARINE<br>POLLUTANT /<br>LTD. QTY. |
|-----------|----------------------|------------------|-----------------------|------------------|------------------------------------|
|           |                      |                  |                       |                  |                                    |

**U.S. DOT - ROAD**

|                     |
|---------------------|
| Not dangerous goods |
|                     |

**CFR\_RAIL\_C**

|                     |
|---------------------|
| Not dangerous goods |
|                     |

**U.S. DOT - INLAND WATERWAYS**

|                     |
|---------------------|
| Not dangerous goods |
|---------------------|



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**TDG\_ROAD\_C**

Not dangerous goods

**TDG\_RAIL\_C**

Not dangerous goods

**TDG\_INWT\_C**

Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS**

Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

Not dangerous goods

**MX\_DG**

Not dangerous goods

**\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Marine pollutant

no

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know Act  
CERCLA Reportable Quantity**

| Components   | CAS-No. | Component RQ<br>(lbs) | Calculated product RQ<br>(lbs) |
|--------------|---------|-----------------------|--------------------------------|
| BENZOIC ACID | 65-85-0 | 5000                  | *                              |

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\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Pennsylvania Right To Know**

WATER

7732-18-5

CATIONIC GUAR GUM, MODIFIED

65497-29-2

**New Jersey Right To Know**

WATER

7732-18-5

CATIONIC GUAR GUM, MODIFIED

65497-29-2

DIALYLDIMETHYLAMMONIUM  
CHLORIDE-ACRYLAMIDE

26590-05-6

**California Prop 65**

Proposition 65 warnings are not required for this product based on the results of a risk assessment.

**The components of this product are reported in the following inventories:**

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TSCA : On TSCA Inventory

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)



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### SECTION 16. OTHER INFORMATION

#### Further information

Revision Date: 11/09/2016

| NFPA:   | HMIS III:  |               |          |                     |          |                        |          |
|---|--|---------------|----------|---------------------|----------|------------------------|----------|
| <p>Flammability</p> <p>Health</p> <p>Instability</p> <p>Special hazard.</p> | <table border="1"> <tr> <td><b>HEALTH</b></td><td><b>0</b></td></tr> <tr> <td><b>FLAMMABILITY</b></td><td><b>0</b></td></tr> <tr> <td><b>PHYSICAL HAZARD</b></td><td><b>0</b></td></tr> </table> <p>0 = not significant, 1 = Slight,<br/>           2 = Moderate, 3 = High<br/>           4 = Extreme, * = Chronic</p> | <b>HEALTH</b> | <b>0</b> | <b>FLAMMABILITY</b> | <b>0</b> | <b>PHYSICAL HAZARD</b> | <b>0</b> |
| <b>HEALTH</b>   | <b>0</b>   |               |          |                     |          |                        |          |
| <b>FLAMMABILITY</b>   | <b>0</b>   |               |          |                     |          |                        |          |
| <b>PHYSICAL HAZARD</b>  | <b>0</b>   |               |          |                     |          |                        |          |

#### NFPA Flammable and Combustible Liquids Classification

Not applicable

#### Full text of H-Statements

H319 Causes serious eye irritation.

Sources of key data used to compile the Safety Data Sheet

Ashland internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists



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BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

LDxx : Lethal Dose, for xx percent of test population.

ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx

N.O.S.: Not Otherwise Specified

OECD : Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit

P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL : Short-term exposure limit

STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value

TWA : Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act

DOT : Department of Transportation

FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act

HMIRC : Hazardous Materials Information Review Commission

HMIS : Hazardous Materials Identification System

NFPA : National Fire Protection Association

NIOSH : National Institute for Occupational Safety and Health

OSHA : Occupational Safety and Health Administration

PMRA : Health Canada Pest Management Regulatory Agency

RTK : Right to Know

WHMIS : Workplace Hazardous Materials Information System