

SAFETY DATA SHEET

**STARKOTE AQ-20-2**

Version 1.4

Revision Date 05/21/2015

Print Date 05/21/2015

SECTION 1. IDENTIFICATION

Product name : STARKOTE AQ-20-2

Product Use Description : AQUEOUS SATIN PRIMER FOIL STAMPABLE & UV COATABLE

Manufacturer or supplier's detailsCompany : ACTEGA Kelstar
1050 Taylors Lane
Cinnaminson, NJ 08077

Telephone : (800) 255-0021

Telefax : (856) 786-2860

Visit our web site : www.actega.com

Emergency telephone number : Chemtrec Phone: 1-800-424-9300 / +1 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

Other hazards

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 4 %

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

Component	CAS-No.	Concentration (%)
Wax	-	>= 1 - < 5
Silicon dioxide	7631-86-9	>= 1 - < 5

SECTION 4. FIRST AID MEASURESGeneral advice : Get medical attention immediately if symptoms occur.
Treat symptomatically.If inhaled : If inhaled, remove to fresh air.
If breathing is difficult, give oxygen.
If not breathing, give artificial respiration.

In case of skin contact : Remove contaminated clothing. Wash thoroughly with soap and

STARKOTE AQ-20-2

Version 1.4

Revision Date 05/21/2015

Print Date 05/21/2015

- water for at least 20 min. or until material is removed.
Wash contaminated clothing before re-use.
Get medical attention if irritation develops and persists.
- In case of eye contact : If easy to do, remove contact lens, if worn.
Rinse immediately with plenty of water, also under the eyelids,
for at least 15 minutes.
Seek medical advice.
- If swallowed : Do NOT induce vomiting.
Gently wipe or rinse the inside of the mouth with water.
Obtain medical attention.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.
- Further information : Use water spray to cool unopened containers.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.
Use personal protective equipment.
- Environmental precautions : Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Use only in accordance with our recommendations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
- Materials to avoid : Keep away from oxidising agents and strongly acid or alkaline materials.

STARKOTE AQ-20-2

Version 1.4

Revision Date 05/21/2015

Print Date 05/21/2015

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Proprietary Defoamer	-	TWA	5 mg/m ³	ACGIH
		STEL	10 mg/m ³	ACGIH
		TWA	5 mg/m ³	OSHA Z-1
		TWA	5 mg/m ³	OSHA Z-1
Proprietary Defoamer	-	TWA	5 mg/m ³	ACGIH
		STEL	10 mg/m ³	ACGIH
		TWA	5 mg/m ³	OSHA Z-1
		TWA	5 mg/m ³	OSHA Z-1
Wax	-	TWA (Fumes)	2 mg/m ³	ACGIH
		TWA (Fumes)	2 mg/m ³	NIOSH REL
		TWA (Fumes)	2 mg/m ³	OSHA P0
		TWA	6 mg/m ³	OSHA P0
Silicon dioxide	7631-86-9	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m ³ / %SiO ₂ (Silica)	OSHA Z-3
		TWA	6 mg/m ³ (Silica)	NIOSH REL

Engineering measures : Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment
Hand protection

Material : Impervious gloves

Eye protection

: Safety glasses with side-shields
Safety goggles

Skin and body protection

: Long sleeved clothing
Chemical resistant apron
Lightweight protective clothing

Protective measures

: Ensure that eye flushing systems and safety showers are

STARKOTE AQ-20-2

Version 1.4

Revision Date 05/21/2015

Print Date 05/21/2015

located close to the working place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
Wash hands before eating, drinking, or smoking.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Aqueous solution

Colour : white

Odour : ammoniacal

Odour Threshold : No data available

pH : 8 - 9.4

: No data available

Initial boiling point : > 200.1 °F (> 93.4 °C)

Flash point : > 200.1 °F (> 93.4 °C)

Evaporation rate : 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/Specific Gravity : 1.044 (68 °F (20 °C))

Density : 8.70 lb/gal

Bulk density : No data available

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

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

STARKOTE AQ-20-2

Version 1.4

Revision Date 05/21/2015

Print Date 05/21/2015

Auto-ignition temperature : No data available

Thermal decomposition : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Nitrogen oxides (NOx)

Viscosity
Viscosity, kinematic : > 21 mm²/s (104 °F (40 °C))

SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions : Acids and bases

Conditions to avoid : Keep away from open flames, hot surfaces and sources of ignition.

Hazardous decomposition products : Stable under recommended storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Eyes
Skin contact
Inhalation

Acute toxicity**Components:**

- Wax:
Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Skin corrosion/irritation**Product:**

Remarks: No data available

Serious eye damage/eye irritation**Product:**

Remarks: No data available

Respiratory or skin sensitisation**Product:**

STARKOTE AQ-20-2

Version 1.4

Revision Date 05/21/2015

Print Date 05/21/2015

Remarks: No data available

Carcinogenicity**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Repeated dose toxicity**Product:**

Remarks: No data available

Further information**Product:**

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other :
aquatic invertebrates Remarks: No data available**Persistence and degradability****Product:**

Biodegradability : Remarks: No data available

Bioaccumulative potential**Product:**

STARKOTE AQ-20-2

Version 1.4

Revision Date 05/21/2015

Print Date 05/21/2015

Bioaccumulation : Remarks: No data available

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Regulation 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**Waste from residues : Dispose of in accordance with applicable local/municipal, state/provincial and federal regulations.
The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

Contaminated packaging : Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION**International Regulation****IATA-DGR**

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations**49 CFR**

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION**WHMIS Classification** : D2B: Toxic Material Causing Other Toxic Effects

STARKOTE AQ-20-2

Version 1.4

Revision Date 05/21/2015

Print Date 05/21/2015

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

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 302 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a SARA 302 RQ.

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMII Intermediate or Final VOC's (40 CFR 60.489):

Polypropylene glycol	25322-69-4	1.8 %
----------------------	------------	-------

VOC : 0.08 lb/gal
1.00 %

Non-volatile information is not a specification.

Massachusetts Right To Know

Wax	-
Silicon dioxide	7631-86-9

Pennsylvania Right To Know

Hydroxypropyl acrylate, acrylic acid polymer, ammonium salt	Not Assigned
Water	7732-18-5
Acrylic Resin	Not Assigned
SURFACTANT	Not Assigned
Wax	-
Silicon dioxide	7631-86-9

SAFETY DATA SHEET



STARKOTE AQ-20-2

Version 1.4

Revision Date 05/21/2015

Print Date 05/21/2015

Sodium hydroxide	1310-73-2
Ammonia hydroxide	1336-21-6
sodium sulphate	7757-82-6

New Jersey Right To Know

Hydroxypropyl acrylate, acrylic acid polymer, ammonium salt	Not Assigned
Water	7732-18-5
Acrylic Resin	Not Assigned
SURFACTANT	Not Assigned
Wax	-
Silicon dioxide	7631-86-9

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

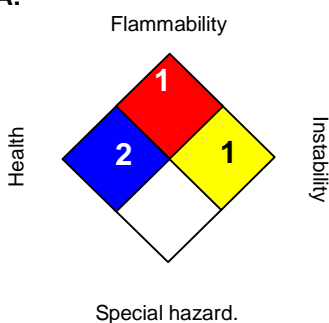
The components of this product are reported in the following inventories:

LISTED : Listed

SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date : 05/21/2015

DISCLAIMER: The information in this document is believed to be correct as of the date issued. However, no warranty expressed or implied has been made regarding the accuracy or completeness of this information. The information presented in this data sheet represents a compilation of information generated from our suppliers and other recognized sources of scientific

STARKOTE AQ-20-2

Version 1.4

Revision Date 05/21/2015

Print Date 05/21/2015

evidence and chemical information. Since the conditions of handling and use of this material are beyond our control, ACTEGA Kelstar, Inc. shall not be liable for any injury, loss, or damage direct, incidental or consequential, arising out of the use or inability to use this product. The seller and / or manufacturer's only obligations shall be to replace the product if it is defective, and shall not be liable for more than the cost of the product. Before using, the user shall determine the suitability of the product for its intended use, and assumes all risk and liability whatsoever in connections with the use of said product. The foregoing warranties are in lieu of all other warranties, written, oral, expressed, or implied. No other warranty is made concerning the suitability of this product. The foregoing warranties may not be altered except by an agreement signed by the officers of the seller and / or manufacturer.