

## Title: Safety Data Sheet of ARIA SPAN 20



ARIA SHIMI RAYKA

Dept.: Health & Safety	Doc. Code: ASR-HS-SP-003-WI-F032	Issue / Revising Date:2022.07.21
Page No.: Page 1 of 4	Revision No.: 00	Exp. Date: 2024.07.21

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name:	SORBITAN MONOLAUATE
Product description:	SORBITAN MONOLAUATE
catalog code :	ARIA SPAN 20-SDS 32
Manufacturer:	Aria Shimi Rayka Co. Unit 3, No.18, 17 <sup>th</sup> Alley, Bokharest St. Argentina Sq. Tehran, IRAN
Telephone:	(+98-21)433 87
fax number :	(+98) 21 88100000

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical and Common Name	CAS Registry Number	Wt. %
Sorbitan monolaurate	1338-39-2	100%

### 3. HAZARDS IDENTIFICATION

Emergency Overview:	The substance is not classified according to the Globally Harmonized System (GHS). Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. This substance is not classified as dangerous according to Directive 67/548/EEC.
Eye contact:	Not a hazardous substance or mixture.
Skin contact:	Not a hazardous substance or mixture.
Inhalation:	Not a hazardous substance or mixture.
Ingestion:	Not a hazardous substance or mixture.
Chronic hazards:	No known chronic hazards. Not listed by NTP, IARC or OSHA as a carcinogen
Physical hazards:	Not classified.

### 4. FIRST AID MEASURES

Eye:	Rinse opened eye for several minutes under running water. Then consult a doctor.
Skin:	Immediately wash with water and soap and rinse thoroughly. If skin irritation occurs: Seek immediate medical advice.
Inhalation:	Supply fresh air. If required, provide artificial respiration or Give oxygen. Keep patient warm. Seek immediate medical advice.
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth out with water. If you feel unwell, Seek medical treatment
Most important symptoms/effects, acute and delayed	No further relevant information available.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. FIRE FIGHTING MEASURES

Suitable extinguishing media	Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Unsuitable extinguishing media	Do not use a heavy water stream & high volume water jet.
Specific hazards arising from the	If this product is involved in a fire, the following can be released: Carbon

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Page No.: Page 2 of 4	Revision No.: 00	Exp. Date: 2024.07.21

chemical	monoxide and carbon dioxide
Special protective equipment and precautions for firefighters	Wear self-contained respirator. Wear fully protective impervious suit.
Fire-fighting equipment/instructions	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
General fire hazards	No unusual fire or explosion hazards noted. Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
Methods and materials for containment and cleaning up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
Environmental precautions	Do not allow material to be released to the environment without proper governmental permits.

**7. HANDLING AND STORAGE**

Precautions for safe handling	Do not get in eyes, on skin, or on clothing. Always wash hands after handling the product.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store away from oxidizing agents. Store in cool, dry place in tightly closed containers.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Biological limit values	No biological exposure limits noted for the ingredient(s)
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash facilities and emergency shower must be available when handling this product.
Individual protection measures, such as personal protective equipment Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield.
Skin protection Hand protection	Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.
Other	Wear appropriate chemical resistant clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately.

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Page No.: Page 3 of 4	Revision No.: 00	Exp. Date: 2024.07.21

Wash hands before breaks and at the end of work.  
Maintain an ergonomically appropriate working environment.

### **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Clear & light yellow to brown
Physical state(at 25°C)	Liquid
Odor	characteristic
Melting point/freezing point	-83 - 72 °F / -64 - 22 °C
Boiling point	> 572 °F / > 300 °C Decomposition: Decomposes below the boiling point.
Viscosity at 25 °C	Max 5000 cP
Density	1.032-1.090 g/cm <sup>3</sup> t 20 °C (68 °F)
Flash point:	> 113 °C (> 230 °F)
Insoluble	Not miscible or difficult to mix in water(< 3 mg/l (68 °F / 20 °C))
Soluble	Mineral oils

### **10. STABILITY AND REACTIVITY**

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur.
Conditions to avoid	Avoid temperature exceeding the flash point. Contact with incompatible materials
Incompatible materials	Oxidizing agents.
Hazardous decomposition products	Carbon monoxide and carbon dioxide.

### **11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure Inhalation	Prolonged inhalation may be harmful.
Skin contact	May cause irritation
Eye contact	May cause irritation
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Dermal LD50	Remarks: Not applicable
Oral LD50	> 2000 mg/kg

### **12. ECOLOGICAL INFORMATION**

Ecotoxicity	The compound showed very low toxicity in the MICROTOX <sup>®</sup> bioassay.
Persistence and degradability	The aerobic degradability (biochemical oxygen demand of insoluble substances [BODIS test]) of sorbitan monolaurate in seawater was tested. The test substance was biodegraded by 54% over 28 days and showed only a slight inhibition of 8% to seawater bacteria. The test was extended for an additional 7 days to establish whether degradation was continuous after the test period. Sorbitan monolaurate achieved a plateau by day 35 in the 7 days extended test.
Bioaccumulative potential	Bioaccumulation is unlikely.
Mobility in soil	No data available

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Page No.: Page 4 of 4	Revision No.: 00	Exp. Date: 2024.07.21

Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.
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### **13. DISPOSAL CONSIDERATIONS**

Disposal instructions	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused product	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**

DOT	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
Transport in bulk according. Annex II of MARPOL 73/78 and the IBC Code	Not available.

### **15. REGULATORY INFORMATION**

US federal regulations	Not regulated.
TSCA Section 12(b) Export Notification (40 CFR 707, Sub pt. D)	Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4)	Not regulated.
SARA 304 Emergency release notification	Not regulated.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)	Not regulated.
Superfund Amendments and Reauthorization Act of 1986 (SARA)	Not regulated.
SARA 311/312 Hazardous	NO.
Clean Water Act (CWA)	Not regulated.

### **16. OTHER INFORMATION**

THE INFORMATION ON THIS SAFETY DATA SHEET IS BELIEVED TO BE ACCURATE AND IT IS THE BEST INFORMATION AVAILABLE TO ARIA SHIMI RAYKA Co. THIS DOCUMENT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONS FOR HANDLING A CHEMICAL BY A PERSON TRAINED IN CHEMICAL HANDLING. ARIA SHIMI RAYKA MAKES NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED WITH RESPECT TO SUCH INFORMATION OR THE PRODUCT TO WHICH IT RELATES, AND WE ASSUME NO LIABILITY RESULTING FROM THE USE OR HANDLING OF THE PRODUCT TO WHICH THIS SAFETY DATA SHEET RELATES. USERS AND HANDLERS OF THIS PRODUCT SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION PROVIDED HEREIN FOR THEIR OWN PURPOSES.