


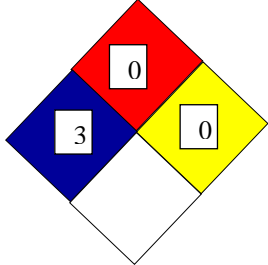


Safety Data Sheet



Revision date: 11.04.2015

Date of issue: 02.04.2015

Sr. No.	Title of the section	Information required in this section
1.	Identification of the mixture & of the company	
1.1	Identification of the substance or preparation	1.1.1 Trade Name : Shafen Star 1.1.2 Product Registration No.: 83529-25
1.2	Use of the substance/ preparation	1.2.1 Recommended uses: ✓ Pesticide / Herbicide 1.2.2 Restricted uses: Not known as on date
1.3	Company/ under - taking identification	1.3.1 Company name: Sharda USA LLC 1.3.2 Contact Person : Sharon Gunning, Director, Supply Chain and Administrative Operations 1.3.3 Manufacturing site address: Universal Cooperatives, Inc. 1253 Independence Dr, Napoleon OH 43545 1.3.4 Telephone number: +91 22 5678 2800 1.3.5 Fax number : +91 22 5678 2828, +91 22 5678 2808 1.3.6 E-mail : shardain@vsnl.com ; WEBSITE: http://www.shardausa.com
1.4	Emergency telephone	1.4.1 Emergency telephone number : 1(800) 222-1222 CHEMTREC PHONE: 1(800) 424-9300 1.4.2 Telephone number of USA importer: (610) 350-6930 1.4.3 Opening hours: 24 hrs
2.	Hazard Identification	
2.1	Classification of the substance according to Regulation 1910.1200 [GHS]	<p>Classification: Eye Damage 1, Skin Irritation 2, Skin Sensitization 1</p> <p>Hazard statement : H318 – Causes serious eye damage H315 - Causes severe skin burns and eye damage H317 – May cause an allergic skin reaction</p> <p>Signal Word : Warning</p> <p>Hazard pictograms :</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  GHS07 </div> <div style="text-align: center;">  GHS05 </div> </div> <p>Precautionary statements : P264 – Wash face, hands and any exposed skin thoroughly after handling P280 – Wear protective gloves/ protective clothing/eye protection/face protection. P302 + P352 – IF ON SKIN: Wash with plenty of soap and water. P332 + P313 – If skin irritation occurs: Get medical advice/attention P321 – Specific treatment (Reference to supplemental first aid instruction on the label). P362 – Take off contaminated clothing and wash before reuse. P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P261 – Avoid breathing dust/fume/gas/mist/vapours/ spray. P272 – Contaminated work clothing should not be allowed out of the workplace. P310 – Immediately call a POISON CENTER or doctor/physician.</p>

2.2	Other Information	<p>Hazard Ratings : NFPA Health: 3 Flammability: 0 Reactivity: 0</p> <p>Hazard Ratings : HMIS Health: 3 Flammability: 0 Reactivity: 0</p>  																					
3. Composition /Information on Ingredients																							
3.1	Composition	<p>List of raw materials in the mixture with hazardous/ non-hazardous additional</p> <table border="1"> <thead> <tr> <th>% Conc.</th> <th>CAS no.</th> <th>Substance name</th> </tr> </thead> <tbody> <tr> <td>21.43%</td> <td>108731-70-0</td> <td>Fomesafen Sodium</td> </tr> <tr> <td>4%</td> <td>1310-73-2</td> <td>Sodium Hydroxide</td> </tr> <tr> <td>10%</td> <td>NA</td> <td>AU-225 (alkyl poly glycosides and non-ionic coupling agents)</td> </tr> <tr> <td>0.05%</td> <td>NA</td> <td>Silicone emulsion</td> </tr> <tr> <td>0.05%</td> <td>2634-33-5</td> <td>1,2-benzisothiazolin-3-one</td> </tr> <tr> <td>64.47%</td> <td>7732-18-5</td> <td>Water</td> </tr> </tbody> </table>	% Conc.	CAS no.	Substance name	21.43%	108731-70-0	Fomesafen Sodium	4%	1310-73-2	Sodium Hydroxide	10%	NA	AU-225 (alkyl poly glycosides and non-ionic coupling agents)	0.05%	NA	Silicone emulsion	0.05%	2634-33-5	1,2-benzisothiazolin-3-one	64.47%	7732-18-5	Water
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3.2.	Common name and synonyms	Details not known																					
3.3	Classified Impurities and stabilizing additives contributing to classification of the chemical	No major known impurity have Carcinogen, Mutagen & Reprotoxic (CMR) classification which can contribute to the Classification & Labelling of the chemical.																					
4. First Aid Measures																							
4.1	Description of first aid measures	<p>- Inhalation: Remove source of contamination or move victim to fresh air. Keep victim warm and at rest. Treat symptomatically and supportively. Obtain medical advice if necessary.</p> <p>- Skin contact: Remove contaminated clothing, shoes and leather goods. Wash skin gently and thoroughly with water and non-abrasive soap. Persons who become sensitised may require specialised medical management with anti-inflammatory agents.</p> <p>- Eye contact: Immediately flush the eyes with gently flowing lukewarm water or saline solution for 20 minutes, occasionally lifting the upper and lower lids. Specialised ophthalmologic treatment might be required.</p> <p>- Oral: Do not induce emesis. Seek medical advice</p>																					
4.2	Important symptoms & effects	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident is recommended.																					
4.3	Immediate medical attention	<p>Notes for the doctor: No relevant information or antidote available</p> <p>For 24-hour medical emergency assistance (human or animal) call 1-800-222-1222. For chemical emergency assistance (spill, leak, fire, or accident) call ChemTrec at 1-800-424-9300.</p>																					
5. Fire Fighting Measures																							
5.1	suitable extinguishing media	Carbon dioxide, extinguishing powder or water spray can be used for cooling of unaffected stock. In case of larger fires, water spray or alcohol resistant foam to be used.																					
5.2	Special hazard arising from the chemical	Toxic carbon and nitrogen oxides																					

5.3	Special protective equipment and precautions for firefighters	As in any fire, wear full protective clothing and self-contained breathing apparatus with full face piece operated in pressure-demand or other positive pressure mode.								
6. Accidental Release Measures										
6.1	Personal precautions, protective equipment and emergency procedures	<p>6.1.1 For non-emergency personnel</p> <ul style="list-style-type: none"> ➤ Personal precautions: Avoid contact with skin and eyes. Do not breathe in fumes. Ventilate area of spill or leak, especially confined areas. Shut off/remove any ignition sources. For personal protection see Section 8. ➤ Environmental precautions: Do not allow to enter drains or water courses. When the product contaminates public waters, inform appropriate authorities immediately in accordance with local regulations. <p>6.1.2 For emergency responders: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Do not touch the spilled material. Avoid the spread of the spillage by using adsorbents, if this can be done without risks. Ground all equipment containing material.</p>								
6.2	Methods and material for containment and cleaning up	Sweep up with dustpan and brush off inert material. The waste should be held in suitable labeled container.								
6.3	Reference to other section	If appropriate section 8 and 13 shall be referred to								
7. Handling and Storage										
7.1	Precautions for safe handling	<p>7.1.1. Recommendations shall be specified to:</p> <p>Remove sources of naked flame or sparks. Avoid contact with eyes, prolonged contact with skin, and inhalation of fumes and spray particles. Use with adequate ventilation. Do not apply directly to areas where surface water is present. Water used to clean equipment must be disposed of correctly to avoid contamination.</p> <p>7.1.2. Advice on general occupational hygiene:</p> <ul style="list-style-type: none"> (a) not to eat, drink and smoke in work areas (b) to wash hands after use; and (c) To remove contaminated clothing and protective equipment before entering eating areas 								
7.2	Conditions for safe storage, including any incompatibilities	<p>(a) How to manage risks associated with storage :</p> <p>No special storage condition indicated</p> <p>(b) Other advice including: Do not contaminate water, food, or feed by storage or disposal. Store in cool place. Keep container tightly closed in a dry and well-ventilated place.</p> <p>(c) Storage for 2 years</p>								
8. Exposure Controls / Personal Protection										
8.1	Control parameters	<p>Components with limit values that require monitoring at the workplace</p> <table border="1"> <tr> <td>72178-02-0</td> <td>OSHA permissible exposure limit (PEL): Not available American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV): Not available</td> </tr> <tr> <td>108731-70-0</td> <td>Not established</td> </tr> <tr> <td>1310-73-2</td> <td>REL : Ceiling limit value – 2 mg/m3 PEL : Long term value – 2 mg/m3 TLV : Ceiling limit value – 2 mg/m3</td> </tr> <tr> <td>2634-33-5</td> <td>No exposure limit value known</td> </tr> </table>	72178-02-0	OSHA permissible exposure limit (PEL): Not available American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV): Not available	108731-70-0	Not established	1310-73-2	REL : Ceiling limit value – 2 mg/m3 PEL : Long term value – 2 mg/m3 TLV : Ceiling limit value – 2 mg/m3	2634-33-5	No exposure limit value known
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8.2	Exposure controls									
8.2.1	Appropriate engineering controls	The description of appropriate exposure control measures shall relate to the identified use(s) of the substance or mixture as referred to in subsection 1.2. This information shall be sufficient to enable the employer to carry out an assessment of risk to the safety and health of workers arising from the presence of the substance.								

8.2.2	Individual protection measures	<p>(a) Eye / face protection: Wear appropriate protective eyeglasses, splash goggles or chemical safety goggles and face shield.</p>  <p>(b) Skin protection: Wear appropriate protective clothing like impervious lab coat, apron or coveralls.</p> <p>(i) Hand protection: Use compatible chemical / solvent resistant protective gloves made of suitable materials like rubber, plastic, etc,</p>  <p>(ii) Other: Wear appropriate boots and other footwear.</p> <p>(c) Respiratory protection: In case of brief exposure or low pollution, use respiratory filter device. In case of intensive or longer exposure, use self-contained respiratory protective device. Short term filter device: Filter AX. In case of emergency spills, use a NIOSH approved respirator with any N, R, P, or HE filter.</p> <p>(d) General protective and hygienic measures:</p> <ul style="list-style-type: none"> • Keep away from foodstuffs, beverages and feed. • Immediately remove all soiled and contaminated clothing. • Wash hands before breaks and at the end of work. • Store protective clothing separately.
9.	Physical & Chemical Properties	
9.1	Information on basic physical and chemical properties	<p>(a) Appearance: Liquid</p> <p>(b) Odour: Characteristic</p> <p>(c) Initial boiling point and boiling range: 531.4 °C at 760 mmHg (Active Ingredient)</p> <p>(d) Flash point: Not applicable</p> <p>(e) Vapour pressure : Not known</p> <p>(f) Bulk Density : 9.26 lb/gal</p> <p>(g) pH value: 8</p> <p>(h) Solubility(ies): in water: miscible with water</p> <p>(i) Explosive properties: None</p> <p>(j) Flammability: Not flammable</p>
9.2	Other information	Solvent content – 64.47 %
10.	Stability and Reactivity	
10.1	Reactivity	Not known
10.2	Chemical stability	Stable at normal temperature and pressure
10.3	Possibility of hazardous reactions	No information known
10.4	Conditions to avoid	Avoid temperatures above 150 ⁰ F and below 20 ⁰ F. High temperature, sunlight, frost
10.5	Incompatible materials	Strong oxidizing agents
10.6	Hazardous decomposition products	In case of fire - Cl ₂ , NO _x . Thermal decomposition may produce toxic carbon and nitrogen oxides, and hydrogen chloride.

11.	Toxico-logical Information											
11.1	Information on toxicological effects	(a) acute toxicity: Acute toxicity – Not classified (b) skin corrosion/irritation: corrosive to skin in category 1B (c) serious eye damage/irritation: Strong irritant with the danger of severe eye injury (d) respiratory or skin sensitization: skin sensitizing in category 1 (e) Carcinogenicity: no known evidence (g) reproductive toxicity: no known evidence (h) STOT-single exposure: no known evidence (i) STOT-repeated exposure: no known evidence										
11.2	Numerical measures of toxicity (such as acute toxicity estimates)	<table border="1"> <thead> <tr> <th>CAS no.</th> <th>Toxicity details</th> </tr> </thead> <tbody> <tr> <td>72178-02-0</td> <td> Oral LD50 (male rat) = 1250 mg/Kg [Pesticide Manual. Vol. 9, Pg. 433, 1991] Dermal LD50 (rat) = > 1000 mg/Kg [Pesticide Manual. Vol. 9, Pg. 433, 1991] Eye Contact: Not an irritant (Rabbit) – Qualitative in-vivo study Skin Contact: Not an irritant (Rabbit)– Qualitative in-vivo study Skin Sensitization: Not a Sensitizer (Guinea Pig) – Qualitative in-vivo study Reproductive Toxicity: Non-genotoxic in in-vitro and in-vivo assays. 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		published to date.										
11.3	Chemical if, listed in NTP or IARC or by OSHA as Carcinogens	<p>Fomesafen was administered in the diet to Wistar rats for 106 weeks using 52 rats /sex/dose at 0, 1, 5, 100 or 1000 ppm (ICI Central Toxicology Laboratory, 1984). No oncogenic effects were noted in either sex at any dose. The 1000 ppm dose exceeded the MTD for the males but approximated an MTD in females.</p> <p>Basis — Fomesafen produced liver adenomas and carcinomas in both sexes of Charles River CD-1 mice; Classification — C; possible human carcinogen.</p> <p>The Cancer Assessment Review Committee (CARC) classified fomesafen as "not likely to be carcinogenic to humans"; therefore, a cancer risk assessment was not required.</p>										
11.4	Additional information	<p>Product shows following danger according to internally approved calculation methods for preparation</p> <ul style="list-style-type: none"> ▪ Irritant ▪ Corrosive 										
12.	Ecological Information											
12.1	Eco – Toxicity	<table border="1"> <thead> <tr> <th>CAS no.</th> <th>Aquatic toxicity values</th> </tr> </thead> <tbody> <tr> <td>108731-70-0</td> <td>Fish 96-hr LC50 = 306.867 Daphnid 48-hr LC50 = 178.679 Green Algae 96-hr EC50 = 79.430</td> </tr> <tr> <td>72178-02-0</td> <td>96 hour LC50 – Bluegill sunfish: 1507 mg/L 96 hour LC50 – Rainbow trout: 170 mg/L 48 hour LC50 – Daphnia magna: 14.804 mg/L 96 hour EC50 – Green Algae : 11.386 mg/L From few of the values it can be inferred the chemical will have aquatic toxicity. Moreover the ready biodegradation is slow the chemical should have toxicity as positive. But since the BCF factor is < 500, so the values cannot be considered for Aquatic classification. Also, the Log KOW is < 4, which further supports the above mentioned justification.</td> </tr> <tr> <td>1310-73-2</td> <td>Fish 48-hr LC50 = 189 mg/L Daphnid 48-hr EC50 = 40.4 mg/L; minimum lethal concentration = 700 mg/L</td> </tr> <tr> <td>2634-33-5</td> <td>Fish 96-hr LC50 = 1658.613; LC50 = 233.056 mg/L Daphnid 48-hr LC50 = 811.665 mg/L Green Algae 96-hr EC50 = 200.011 mg/L</td> </tr> </tbody> </table>	CAS no.	Aquatic toxicity values	108731-70-0	Fish 96-hr LC50 = 306.867 Daphnid 48-hr LC50 = 178.679 Green Algae 96-hr EC50 = 79.430	72178-02-0	96 hour LC50 – Bluegill sunfish: 1507 mg/L 96 hour LC50 – Rainbow trout: 170 mg/L 48 hour LC50 – Daphnia magna: 14.804 mg/L 96 hour EC50 – Green Algae : 11.386 mg/L From few of the values it can be inferred the chemical will have aquatic toxicity. Moreover the ready biodegradation is slow the chemical should have toxicity as positive. But since the BCF factor is < 500, so the values cannot be considered for Aquatic classification. Also, the Log KOW is < 4, which further supports the above mentioned justification.	1310-73-2	Fish 48-hr LC50 = 189 mg/L Daphnid 48-hr EC50 = 40.4 mg/L; minimum lethal concentration = 700 mg/L	2634-33-5	Fish 96-hr LC50 = 1658.613; LC50 = 233.056 mg/L Daphnid 48-hr LC50 = 811.665 mg/L Green Algae 96-hr EC50 = 200.011 mg/L
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		1310-73-2	Fish 48-hr LC50 = 189 mg/L Daphnid 48-hr EC50 = 40.4 mg/L; minimum lethal concentration = 700 mg/L									
2634-33-5	Fish 96-hr LC50 = 1658.613; LC50 = 233.056 mg/L Daphnid 48-hr LC50 = 811.665 mg/L Green Algae 96-hr EC50 = 200.011 mg/L											
12.2	Persistence and degradability	<table border="1"> <thead> <tr> <th>CAS no.</th> <th>Persistence and degradability</th> </tr> </thead> <tbody> <tr> <td>108731-70-0</td> <td>Biowin1 (Linear Model Prediction) : Does Not Biodegrade Fast Biowin2 (Non-Linear Model Prediction): Does Not Biodegrade Fast Biowin3 (Ultimate Biodegradation Timeframe): Recalcitrant Biowin4 (Primary Biodegradation Timeframe): Weeks-Months Biowin5 (MITI Linear Model Prediction) : Does Not Biodegrade Fast Biowin6 (MITI Non-Linear Model Prediction): Does Not Biodegrade Fast Biowin7 (Anaerobic Model Prediction): Does Not Biodegrade Fast Ready Biodegradability Prediction: NO</td> </tr> <tr> <td>72178-02-0</td> <td>The persistence of fomesafen in soil is expected to prolong phytotoxic effects to non-target plants. Environmental fate properties are also expected to favor fomesafen movement into ground and surface waters. Use of these waters for irrigation may pose a risk to non-target plant species. It is highly persistent in soil (63-527 days, dependent on soil type) resulting in a potential for accumulation in terrestrial environments.</td> </tr> <tr> <td>2634-33-5</td> <td>Biowin1 (Linear Model Prediction) : Biodegrades Fast</td> </tr> </tbody> </table>	CAS no.	Persistence and degradability	108731-70-0	Biowin1 (Linear Model Prediction) : Does Not Biodegrade Fast Biowin2 (Non-Linear Model Prediction): Does Not Biodegrade Fast Biowin3 (Ultimate Biodegradation Timeframe): Recalcitrant Biowin4 (Primary Biodegradation Timeframe): Weeks-Months Biowin5 (MITI Linear Model Prediction) : Does Not Biodegrade Fast Biowin6 (MITI Non-Linear Model Prediction): Does Not Biodegrade Fast Biowin7 (Anaerobic Model Prediction): Does Not Biodegrade Fast Ready Biodegradability Prediction: NO	72178-02-0	The persistence of fomesafen in soil is expected to prolong phytotoxic effects to non-target plants. Environmental fate properties are also expected to favor fomesafen movement into ground and surface waters. Use of these waters for irrigation may pose a risk to non-target plant species. It is highly persistent in soil (63-527 days, dependent on soil type) resulting in a potential for accumulation in terrestrial environments.	2634-33-5	Biowin1 (Linear Model Prediction) : Biodegrades Fast		
		CAS no.	Persistence and degradability									
		108731-70-0	Biowin1 (Linear Model Prediction) : Does Not Biodegrade Fast Biowin2 (Non-Linear Model Prediction): Does Not Biodegrade Fast Biowin3 (Ultimate Biodegradation Timeframe): Recalcitrant Biowin4 (Primary Biodegradation Timeframe): Weeks-Months Biowin5 (MITI Linear Model Prediction) : Does Not Biodegrade Fast Biowin6 (MITI Non-Linear Model Prediction): Does Not Biodegrade Fast Biowin7 (Anaerobic Model Prediction): Does Not Biodegrade Fast Ready Biodegradability Prediction: NO									
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2634-33-5	Biowin1 (Linear Model Prediction) : Biodegrades Fast											

			Biowin2 (Non-Linear Model Prediction): Biodegrades Fast Biowin3 (Ultimate Biodegradation Timeframe): Weeks Biowin4 (Primary Biodegradation Timeframe): Days-Weeks Biowin5 (MITI Linear Model Prediction) : Does Not Biodegrade Fast Biowin6 (MITI Non-Linear Model Prediction): Does Not Biodegrade Fast Biowin7 (Anaerobic Model Prediction): Does Not Biodegrade Fast Ready Biodegradability Prediction: NO
12.3	Bio accumulative potential	CAS no.	BCF
		108731-70-0	Equation Used to Make BCF estimate: $\text{Log BCF} = 0.6598 \log \text{Kow} - 0.333 + \text{Correction}$ Correction(s): Value No Applicable Correction Factors Estimated Log BCF = 1.580 (BCF = 38.06 L/kg wet-wt) Not Bioaccumulative
		72178-02-0	Equation Used to Make BCF estimate: $\text{Log BCF} = 0.6598 \log \text{Kow} - 0.333 + \text{Correction}$ Correction(s): Value No Applicable Correction Factors Estimated Log BCF = 1.580 (BCF = 38.06 L/kg wet-wt)
		2634-33-5	Equation Used to Make BCF estimate: $\text{Log BCF} = 0.50$ Correction(s): Value Correction Factors Not Used for $\text{Log Kow} < 1$ Estimated Log BCF = 0.500 (BCF = 3.162 L/kg wet-wt) Not Bioaccumulative
12.4	Mobility in soil	CAS no.	Soil mobility
		108731-70-0	Estimated Koc: 189.3 L/kg Log Kow : 2.07 (Kowwin program) Soil Koc : 1.55e+003 (KOCWIN MCI method)
		72178-02-0	The label suggests not planting sensitive crops in a fomesafen-treated field for a 3-18 month period, due to the persistence of fomesafen in the soil. Additionally, it is highly mobile, and is expected to leach into groundwater and be transported from the site via runoff into surface waters.
		2634-33-5	Estimated Koc: 11.22 L/kg Log Kow : 0.64 (Kowwin program) Soil Koc : 34.5 (KOCWIN MCI method)
12.5.	General information	Water hazard class : 2 (self-assessment) – hazardous to water Do not allow the product to reach through ground water, water course or sewage system. Danger to drinking water if even small quantity leaks into the ground system. The mixture is not persistent, bio accumulative or toxic (Not PBT)	
13.	Disposal Considerations		
13.1	Waste treatment methods	<p>(a) Waste treatment containers and methods: Waste treatment containers and methods shall be specified including the appropriate methods of waste treatment of both the substance or mixture and any contaminated packaging (for example, incineration, recycling, land filling)</p> <p>(b) Physical/chemical properties: Physical/chemical properties that may affect waste treatment options shall be specified</p> <p>(c) Sewage disposal: Sewage disposal shall be discouraged</p> <p>(d) Special precautions: Where appropriate, any special precautions for any recommended waste treatment option shall be identified.</p>	
13.2	Additional information:	Any relevant Community provisions relating to waste shall be referred to. In their absence any relevant national or regional provisions in force shall be referred to.	
14.	Transport Information		
	Information includes RID, ADR, AND, ICAO, DOT,	14.1. UN number : Not Applicable 14.2. UN proper shipping name : Not Applicable 14.3. Transport hazard class(es): Not Applicable	

	IMDG, IATA-DGR	<p>14.4. Packing group : Not Applicable</p> <p>14.5. Environmental hazards (e.g., Marine pollutant (Yes/No)) : No</p> <p>14.6. Special precautions for user : Not Applicable</p> <p>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code : Not applicable</p> <p>14.8. Additional information : Not Applicable</p>
15.	Regulatory Information	
15.1	Safety, health and environmental regulations/other legislations	<ul style="list-style-type: none"> • Product related hazard information : The product has been classified and marked in accordance with directives on hazardous materials • Hazard statements: <ul style="list-style-type: none"> ✓ This product contains fomesafen which has been determined to cause tumors in laboratory animals (mice). ✓ Risks can be reduced by closely following use directions and precautions and by wearing the protective clothing specified elsewhere on this label. ✓ Causes skin irritation ✓ Harmful if swallowed. ✓ Causes moderate eye irritation. ✓ Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. • Signal word – WARNING • Precautionary statements : <ul style="list-style-type: none"> ✓ Do not get on skin or on clothing. ✓ Avoid contact with eyes. • Other regulations: Listed /not listed within the following regulation <ul style="list-style-type: none"> ✓ Sara - section 355 (extremely hazardous substance): none of the ingredients are listed. ✓ Sara – section 313 (specific toxic chemical listing) : Fomesafen Sodium Salt ✓ TSCA: All 3 listed (CAS No.: 1310-73-2; 2634-33-5; 7732-18-5) ✓ Active Ingredient (CAS No.:72178-02-0): This product is regulated by U.S. Environmental Protection Agency under the Federal Insecticide, Fungicide and Rodenticide Act. ✓ Proposition 65 (chemical known to cause cancer) : none of the ingredients are listed ✓ Proposition 65 (chemical known to cause reproductive toxicity for females/ males) : none of the ingredients are listed ✓ Carcinogenic categories (EPA) : none of the ingredients are listed ✓ TLV : ACGIH – 1000 ppm ✓ NIOSH – Ca (National Institute of Occupational Health and Safety) : none of the ingredients are listed
16.	Other Information	
16.1	Indication of changes	<p>Section 1: Identification of the substance/mixture and of the company/undertaking</p> <p>Section 2: Hazard Identification - Changes in Classification and Labelling.</p> <p>Section 3: Composition /Information on Ingredients</p> <p>Section 5: Fire-fighting measures</p> <p>Section 6: Accidental Release measures</p> <p>Section 7: Handling and storage.</p> <p>Section 8: Exposure Controls/Personal protection.</p> <p>Section 9: Physical and Chemical properties.</p> <p>Section 10: Stability and Reactivity.</p> <p>Section 11: Toxicological Information.</p> <p>Section 12: Ecological Information.</p> <p>Section 14: Transport labeling</p> <p>Section 15: Regulatory Information</p>
16.2	Abbreviations and acronyms	<ul style="list-style-type: none"> • GHS: Globally harmonized system on classification and labelling • TWA: Time Weighted Average • STEL: Short Term Exposure Limit • PEL: Permissible Exposure Limits • ACGIH: American Conference of Governmental Industrial Hygienists • NIOSH: National Institute for Occupational Safety and Health

		<ul style="list-style-type: none"> • TLV: Threshold Limit Value • MARPOL: Marine pollution • IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk • IARC: International Agency for Research on Cancer • NTP: National Toxicology Program • CAS: Chemical Abstracts Service (division of the American Chemical Society) • LC50: Lethal concentration, 50 percent • LD50: Lethal dose, 50 percent • IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association • IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization • ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" • Sara : Superfund Amendments and Reauthorization Act • WEEL: Workplace Environmental Exposure Level
16.3	Key literature references and sources for data	<ul style="list-style-type: none"> • EPI Suite calculation • PBT profiler • http://www.chemicalbook.com/ChemicalProductProperty_EN_CB8854894.htm • http://www.fluoridealert.org/wp-content/pesticides/msla/fomesafen.sodium.html • http://www.chemnet.com/dict/dict--108731-70-0--en.html • http://www.syngentacropprotection.com/pdf/msds/03_63018132007.pdf • http://www.lookchem.com/Fomesafen-sodium/ • http://www.fda.gov/downloads/Food/FoodIngredientsPackaging/EnvironmentalDecisions/UCM287533.pdf • http://onlinelibrary.wiley.com/doi/10.1002/3527600418.mb263433ske0002/pdf • http://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/cl-inventory/search-clinventory-by-exact-name?_clinventory_WAR_clinventoryportlet_substanceName=1%2C2-benzisothiazol-3%282H%29-one&_clinventory_WAR_clinventoryportlet_otherIdentifier=220-120-9 • http://www.epa.gov/pesticides/reregistration/REDS/benzisothiazolin_red.pdf • http://www.alanwood.net/pesticides/derivatives/fomesafen-sodium.html • http://www.fluoridealert.org/wp-content/pesticides/fomesafen--all-page.htm • http://www.pesticideinfo.org/Detail_Chemical.jsp?Rec_Id=PC36335 • http://fluoridealert.org/wp-content/pesticides/docket/EPA-HQ-OPP-2006-0239-0009.pdf

Disclaimer: This product is a registered agricultural chemical and must therefore be used in accordance with the container label directions. The information above is believed to be accurate and represents the best information currently available to us. No representation, guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. This SDS shall be used as a guide only. Users should make their own investigations to determine the suitability of the information for their particular purposes. Consult Sharda USA LLC for further information.