

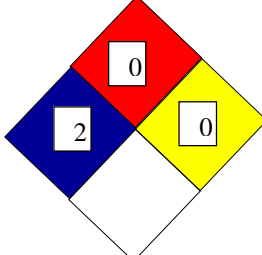



Safety Data Sheet

Revision date: 14.09.2015

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 : Sharda Imidacloprid 2SC T&O ABN: Midash 2SC T&O 1.1.2 Product Registration No.: 83529-2								
1.2	Use of the substance/ preparation	1.2.1 Recommended uses: ✓ 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: Acute Tox. 4 – Oral, Aquatic Chronic 1</p> <p>Hazard statement :</p> <ul style="list-style-type: none"> • H302 – Harmful if swallowed • H410 – Very toxic to aquatic life with long lasting effects <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;">  <p>GHS09</p> </div> <div style="text-align: center;">  <p>GHS07</p> </div> </div> <p>Precautionary statements :</p> <p>P501 – Dispose of contents/ container in accordance with local/ regional/national/international regulation</p> <p>P273 – Avoid release to the environment.</p> <p>P391 – Collect spillage</p> <p>P264 – Wash face, hands and any exposed skin thoroughly after handling</p> <p>P270 – Do not eat, drink or smoke when using this product.</p> <p>P330 – Rinse mouth.</p> <p>P301 + P312 – IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.</p>								
2.2	Other Information	<p>Hazard Ratings : NFPA</p> <p>Health: 2 Flammability: 0 Reactivity: 0</p> <div style="display: flex; align-items: center;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td style="background-color: blue; color: white;">2</td><td style="background-color: red; color: white;">HEALTH</td></tr> <tr><td style="background-color: red; color: white;">0</td><td style="background-color: yellow; color: black;">FLAMMABILITY</td></tr> <tr><td style="background-color: yellow; color: black;">0</td><td style="background-color: white; color: black;">REACTIVITY</td></tr> <tr><td style="background-color: white; color: black;">0</td><td style="background-color: white; color: black;">PROTECTIVE EQUIPMENT</td></tr> </table>  </div> <p>Hazard Ratings : HMIS</p> <p>Health: 2 Flammability: 0 Reactivity: 0</p>	2	HEALTH	0	FLAMMABILITY	0	REACTIVITY	0	PROTECTIVE EQUIPMENT
2	HEALTH									
0	FLAMMABILITY									
0	REACTIVITY									
0	PROTECTIVE EQUIPMENT									
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" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">% Conc.</th> <th style="width: 20%;">CAS no.</th> <th style="width: 60%;">Substance name</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	% Conc.	CAS no.	Substance name					
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		21.7	138261-41-3	Imidacloprid	
		39.79	NA	AU-330L	
		0.80	56-81-5	Glycerine	
		0.26	11138-66-2	Xanthan Gum	
		0.5	NA	Proxel BN	
		36.95	7732-18-5	Water	
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	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.			
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 spilled substance into covered containers. Carefully collect remainder. Then store and dispose of according to local regulations. Personal protection: particulate filter respirator adapted to the airborne concentration of the substance. Do NOT let this chemical enter the environment.				
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: 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: (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</p>				
7.2	Conditions for safe storage, including any incompatibilities	<p>(a) How to manage risks associated with storage : 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>				
8. Exposure Controls / Personal Protection						
8.1	Control parameters	<p>Components with limit values that require monitoring at the workplace</p> <table border="1" data-bbox="462 955 1477 1165"> <tr> <td data-bbox="462 955 665 987">138261-41-3</td> <td data-bbox="665 955 1477 987">Threshold Limit Value (TLV): Not available</td> </tr> <tr> <td data-bbox="462 987 665 1165">56-81-5</td> <td data-bbox="665 987 1477 1165"> US health exposure limits (NIOSH): PEL (Permissible) = TWA 15 mg/m3 (total) TWA 5 mg/m3 (resp) REL (Recommended) = None establisher TLV: mist 10 mg/m3 as TWA (ACGIH 2005). MAK: 50 mg/m3 (Inhalable fraction) IDLH (Immediate danger) = N.D. </td> </tr> </table>	138261-41-3	Threshold Limit Value (TLV): Not available	56-81-5	US health exposure limits (NIOSH): PEL (Permissible) = TWA 15 mg/m3 (total) TWA 5 mg/m3 (resp) REL (Recommended) = None establisher TLV: mist 10 mg/m3 as TWA (ACGIH 2005). MAK: 50 mg/m3 (Inhalable fraction) IDLH (Immediate danger) = N.D.
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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. 				

		<ul style="list-style-type: none"> • Store protective clothing separately. 				
9.	Physical & Chemical Properties					
9.1	Information on basic physical and chemical properties	(a) Appearance: Liquid (b) Odour: Characteristic (c) Initial boiling point and boiling range: 378.84°C (Active ingredient) (d) Flash point: Not applicable (e) Vapour pressure : 10^{-4} Pa (Active ingredient) (f) Bulk Density : 9.15 lb/gal at 25° C (g) pH value: 6.91 (1% dispersion) (h) Solubility(ies): in water: miscible with water (i) Explosive properties: None (j) Flammability : Non Flammable				
9.2	Other information	Solvent content – 36.95%				
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°F and below 20° 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 oral toxicity (category 4) (b) skin corrosion/irritation: not irritant (c) serious eye damage/irritation: not irritant (d) respiratory or skin sensitization: Not sensitizing (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> </td> <td> </td> </tr> </tbody> </table>	CAS no.	Toxicity details		
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		<p>138261-41-3</p> <p>LD50 Rat oral ~450 mg/kg LD50 Rat dermal >5000 mg/kg LC50 Rat inhalation >5323 mg/cu m/4 hr (dust) LC50 Rat inhalation >69 mg/cu m air/4 hr (aerosol) Chronic Exposure or Carcinogenicity/ Wistar Rats /received dietary administration of/ NTN 33893 Technical (94.3% purity) /for 104 weeks/. Sixty animals/sex/group dosed /at levels of/: (Study #1)-0, 100, 300, 900 ppm, (Study #2)-0, 1800 ppm; Mortalities /after 104 weeks were/ 0 ppm (M:16/100, F:26/100), 100 ppm (M/F:6/50), 300 ppm (M:6/50, F:10/50), 900 ppm (M:6/50, F:13/50), 1800 ppm (M:5/50, F:10/50). Clinical Observations /revealed/ no treatment-related signs; weight gain reduced in 1800 ppm group (M: 5%), (F: 11%); Hematology /showed/ no treatment-related effect. Developmental or Reproductive Toxicity/ In an/ embryotoxicity study (including teratogenicity) with NTN 33893 Technical, 16 female rabbits/group /were dosed at/ 0, 7.0, 20.5, 64.3 mg/kg/day (analytical), doses /were/ administered by gavage from day 6 post coitum through day 18. Mortalities /observed were/: 0 mg/kg (0/16), 7.0 mg/kg (0/16), 20.5 mg/kg (0/16), 64.3 (2/16). Clinical observations /revealed/ reduced food consumption, body weight loss day 6 to 19, one abortion (64.3 mg/kg/day), reduced body weight gain day 6 to 19 (20.5 mg/kg/day). /At/ necropsy no treatment-related lesions /were observed/. Developmental: one abortion, two total resorptions, increased post-implantation loss, reduced mean fetal weight (64.3 mg/kg/day); Maternal NOEL = 20.5 mg/kg/day based on mortality of dams, decreased body weight gain for 64.3 mg/kg/day treatment group. Developmental NOEL = 20.5 mg/kg/day based on increased post-implantation loss, decreased fetal weight of the offspring in the 64.3 mg/kg/day treatment group</p> <p>56-81-5</p> <p>Chronic studies: Fertility study of 64 male employees engaged in the manufacture of glycerol. Compared with a control group of 63 workers, no significant differences were found in several sperm quality parameters of which sperm counts/mL and percent normal forms are considered to be most reliable. Skin irritation: Slightly irritating after 48 hours application of 0.05 mL on human skin in a closed patch test. Further the investigators observed a maximum score for irritation of 4 on a scale of 9 at day 14 during a 21 day application of a 10% solution on human skin. Eye irritation: In human eyes, specular microscopy has shown that repeated application of 100% glycerin to the surface of the eye causes extensive changes in the appearance of the endothelium, but most of these changes disappear within 90 min after exposure is ended. Acute Exposure/ Aqueous 50% glycerin in the anterior chamber of rabbits causes significantly less reaction, though within 5 min it visibly dehydrates the lens, causing its capsule to become wrinkled.</p>				
11.3	Chemical if, listed in NTP or IARC or by OSHA as Carcinogens	The chemical is not a listed carcinogen				
11.4	Additional information	<p>Product shows following danger according to internally approved calculation methods for preparation</p> <ul style="list-style-type: none"> ▪ Harmful 				
12. Ecological Information						
12.1	Eco – Toxicity	<table border="1"> <thead> <tr> <th data-bbox="446 1753 625 1795">CAS no.</th> <th data-bbox="625 1753 1559 1795">Aquatic toxicity values</th> </tr> </thead> <tbody> <tr> <td data-bbox="446 1795 625 1944">138261-41-3</td> <td data-bbox="625 1795 1559 1944"> <ul style="list-style-type: none"> • LD50 /Colinus virginianus/ (Bobwhite quail) oral 152 mg/kg • LC50 Aedes aegypti (Yellow fever mosquito; increased mortality) 44 ug/L/48 hr (95% confidence interval: 41-47 ug/L); static, 27 deg C • LC50 Daphnia magna (Water flea; increased mortality) 10.44 mg/L/48 hr (95% confidence interval: 6.97-17.71 mg/L); static, 27 deg C </td> </tr> </tbody> </table>	CAS no.	Aquatic toxicity values	138261-41-3	<ul style="list-style-type: none"> • LD50 /Colinus virginianus/ (Bobwhite quail) oral 152 mg/kg • LC50 Aedes aegypti (Yellow fever mosquito; increased mortality) 44 ug/L/48 hr (95% confidence interval: 41-47 ug/L); static, 27 deg C • LC50 Daphnia magna (Water flea; increased mortality) 10.44 mg/L/48 hr (95% confidence interval: 6.97-17.71 mg/L); static, 27 deg C
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		56-81-5	Fish 96-hr LC50 = 1.16e+005 Fish 14-day LC50 = 1.11e+005 Daphnid 48-hr LC50 = 38159.363
12.2	Persistence and degradability	CAS no.	Persistence and degradability
		138261-41-3	Imidacloprid was found to degrade more rapidly in soil under vegetation; half-lives of 48 and 190 days were determined in experiments with and without vegetation, respectively. A half-life of 34 days was reported for imidacloprid in a field experiment using soil (pH = 7.9, 0.52% organic carbon, 16.6% clay, 31.3% silt, 52.1% sand) where citrus products are grown extensively. Imidacloprid was applied to red brown earth to give a concentration of 50 mg/kg.
		56-81-5	Biowin1 (Linear Model Prediction) : Biodegrades Fast Biowin2 (Non-Linear Model Prediction): Biodegrades Fast Biowin3 (Ultimate Biodegradation Timeframe): Days-Weeks Biowin4 (Primary Biodegradation Timeframe): Days Biowin5 (MITI Linear Model Prediction) : Biodegrades Fast Biowin6 (MITI Non-Linear Model Prediction): Biodegrades Fast Biowin7 (Anaerobic Model Prediction): Biodegrades Fast Ready Biodegradability Prediction: YES
12.3	Bio accumulative potential	CAS no.	BCF
		138261-41-3	An estimated BCF of 3.2 was calculated for imidacloprid(SRC), using a log Kow of 0.57 and a regression-derived equation. According to a classification scheme, this BCF suggests the potential for bioconcentration in aquatic organisms is low(SRC)
		56-81-5	Equation Used to Make BCF estimate: Log BCF = 0.50 Correction(s): Value Correction Factors Not Used for Log Kow < 1 Estimated Log BCF = 0.500 (BCF = 3.162 L/kg wet-wt)
12.4	Mobility in soil	Active Ingredient: Soil sorption of imidacloprid was studied using sandy loam and silt loam soils in Germany. Soil batches containing 0.33 mg/kg of imidacloprid were incubated for 100 days. The Koc values in the soil increased from around 200 on the first day to over 800 by day 100. These time dependent results were verified using a column leaching experiment, indicating that sorption of imidacloprid increases with increased soil residence time	
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	(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) (b) Physical/chemical properties: Physical/chemical properties that may affect waste treatment options shall be specified (c) Sewage disposal: Sewage disposal shall be discouraged (d) Disposal Method: Sweep spilled substance into containers. Carefully collect remainder and then remove to safe place. Personal protection: P2 filter respirator for harmful particles. Do NOT let this chemical enter the environment.	
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, DOT, ICAO, IMDG, IATA-DGR	14.1. UN number : 3082 14.2. UN proper shipping name : ✓ ADR: 3082 Environmentally Hazardous Substance, Liquid, n.o.s. (Imidacloprid (ISO)) ✓ DOT: Environmentally hazardous substance, liquid, n.o.s. (Imidacloprid (ISO))	

		<ul style="list-style-type: none"> ✓ IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Imidacloprid (ISO)) MARINE POLLUTANT ✓ IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Imidacloprid (ISO)) <p>14.3. Transport hazard class(es): 9</p>  <p>14.4. Packing group : III</p> <p>14.5. Environmental hazards (e.g., Marine pollutant (Yes/No)) : Yes</p> <p>14.6. Special precautions for user : Warning</p> <ul style="list-style-type: none"> ✓ Danger Code : 90; ✓ EMS Number : F-A,S-F <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 : ADR/ IMDG</p> <ul style="list-style-type: none"> ✓ Limited quantities (LQ) – 5L; Excepted Quantities (EQ) – E1 ✓ Maximum net quantity per inner packaging : 30 ml ✓ Maximum net quantity per outer packaging : 1000 ml ✓ Transport category – 3
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"> ✓ Harmful if swallowed. ✓ Harmful if absorbed through skin. ✓ Harmful if inhaled. Causes moderate eye irritation. ✓ Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. • Signal word – CAUTION • Precautionary statements : <ul style="list-style-type: none"> ✓ Avoid breathing vapor or mist. ✓ Avoid contact with skin, eyes, and clothing. • 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) : Imidacloprid ✓ TSCA: CAS No.: 56-81-5; 11138-66-2; 7732-18-5 listed ✓ 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 : none of the ingredients are listed ✓ NIOSH – Ca (National Institute of Occupational Health and Safety) : none of the ingredients are listed ✓ OSHA – Ca (Occupational Health and Safety Administration) : 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. Section 12: Ecological Information. Section 14: Transport labeling Section 15: Regulatory Information</p>
16.2	Abbreviations and acronyms	<ul style="list-style-type: none"> • OSHA: Occupational Safety and Health Administration • 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 • 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 • IDLH: Immediately Dangerous to Life or Health • MAK: Maximale Arbeitsplatz-Konzentration
16.3	Key literature references and sources for data	<ul style="list-style-type: none"> • EPI Suite calculation • http://www.lookchem.com/cas-138/138261-41-3.html • http://www.sigmaaldrich.com/MSDS/MSDS/DisplayMSDSPage.do?country=IN&language=en&productNumber=37894&brand=FLUKA&PageToGoToURL=http%3A%2F%2Fwww.sigmaaldrich.com%2Fcatalog%2Fsearch%3Fterm%3D138261-41-3%26interface%3DCAS%2520No.%26N%3D0%26mode%3Dmatch%2520partialmax%26lang%3Den%26region%3DIN%26focus%3Dproduct • http://www.chemicalbook.com/ProductMSDSDetailCB9730575_EN.htm • ECHA website • http://www.pesticideinfo.org/Detail_Chemical.jsp?Rec_Id=PC35730 • http://npic.orst.edu/factsheets/imidacloprid.html • http://en.wikipedia.org/wiki/Imidacloprid • http://www.cdc.gov/niosh/ipcsneng/neng1501.html • http://www.trc-canada.com/detail.php?CatNum=I274990&CAS=138261-41-3&Chemical_Name=Imidacloprid&Mol_Formula=C9H10ClN5O2&Synonym=(2E)-1-(6-Chloro-3-pyridinyl)methyl-5D-N-nitro-2-imidazolidinimine;%201-(6-Chloro-3-pyridinyl)methyl-5D-4,5-dihydro-N-nitro-1H-imidazol-2-amine;%201-(6-Chloro-3-pyridinyl)methyl-5D-N-nitro-2-imidazolidinimine;%20Couraze;%20Premis;%20Grubex; • http://www.chemnet.com/cas/en/138261-41-3/Imidacloprid.html • http://chem.sis.nlm.nih.gov/chemidplus/rn/138261-41-3 • http://pubchem.ncbi.nlm.nih.gov/compound/86418?from=summary • http://www.chemnet.com/cas/en/138261-41-3/Imidacloprid.html

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.