Revision date: 26.01.2016

Date of issue: 26.01.2016

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	1.1.1Trade Name :Hexy 2E1.1.2Product Registration No.: 83529-28		
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 Contact address: 7460 Lancaster Pike, Suite 9; Hockessin, DE 19707 1.3.4 Telephone number: 1-302-234-2780 1.3.5 Fax number : 1-302-234-7570 1.3.6 E-mail : shardain@vsnl.com ; WEBSITE: http://www.shardausa.com 		
1.4	Emergency telephone	1.3.0 E-mail : <u>shatdaneevsm.com</u> , wEbstrE: http://www.shatdadsa.com 1.4.1 Emergency telephone number : 1(800) 222-1222 CHEMTREC PHONE: 1(800) 424-9300 National Poison Information Center : (800)-222-1222 1.4.2 Telephone number of USA importer: (610) 350-6930 1.4.3 Opening hours: 24 hrs		
2.	Hazard Identificatio			
2.1	Classification of the substance according to Regulation 1910.1200 [GHS]	Classification: Aspiration toxicity – 1, Aquatic Acute 1, Aquatic Chronic 1 Hazard statement : • H400: Very toxic to aquatic life • H410: Very toxic to aquatic life with long lasting effects • H304 – May be fatal if swallowed and enters airways Signal Word : Danger Hazard pictograms : • GHS08 GHS09 Precautionary statements : P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P311 – Do NOT induce vomiting P273 – Avoid release to the environment. P391 – Collect spillage. P405 – Store locked up P501 – Dispose of contents/ container in accordance with local/ regional/national/international regulation		
2.2	Other Information	Hazard Ratings : NFPA Health: 2 Flammability: 0 Reactivity: 0 Hazard Ratings : HMIS Health: 2 Flammability: 0 Health: 2 Flammability: 0 Reactivity: 0 PROTECTIVE EQUIPMENT		

3.	Composition /Information on Ingredients			
		List of raw materials in the mixture with hazardous/ non-hazardous additional		
3.1	Composition	% Conc.	CAS no.	Substance name
		24.9	78587-05-0	trans-5-(4-chlorophenyl)-N-cyclohexyl-4-methyl-2-oxo-3- thiazolidine-carboxamide
		3.8	NA	Toximul 3455F
		1.3	NA 64742-94-5	Toximul 3454F Aromatic 200
3.2.	Common name and synonyms	Details no		Aromatic 200
4.	First Aid Measures	I		
4.1	Description of first aid measures	 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. Skin contact: Remove contaminated clothing, shoes and leather goods. Wash skin gently and thoroughly with water and non-abrasive soap. Persons who become sensitized may require specialised medical management with anti-inflammatory agents. 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. Oral: Do not induce emesis. Seek medical advice 		
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	Notes for the doctor: No relevant information or antidote available 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.		
5.	Fire Fighting Measu			
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 I			
6.1	Personal precautions, protective equipment and emergency procedures	 6.1.1 For non-emergency personnel 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. 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 		
6.2	Methods and material for containment and cleaning up	containing material. Sweep up with dustpan and brush off inert material. The waste should be held in suitable labeled container.		

6.3	Reference to other section	to other If appropriate section 8 and 13 shall be referred to		
7.	Handling and Stora	orage		
7.1.	Precautions for safe handling	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.		
		 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 		
7.2	Conditions for safe storage, including any incompatibilities	 (a) How to manage risks associated with storage : No special storage condition indicated (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. 		
8.	Exposure Controls /	Personal Protection		
8.1.	Control parameters	Components with limit values that require monitoring at the workplace 78587-05- VLA-ED: Contains Kaolin (>50% w/w): 2 mg/m3 (breathing fraction) 0 64742-94- 5 TLV : Not known		
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	 from the presence of the substance. (a) Eye / face protection: Wear appropriate protective eyeglasses, splash goggles or chemical safety goggles and face shield. (b) Skin protection: Wear appropriate protective clothing like impervious lab coat, apron or coveralls. (i) <u>Hand protection</u>: Use compatible chemical / solvent resistant protective gloves made of suitable materials like rubber, plastic, etc, (ii) <u>Other</u>: Wear appropriate boots and other footwear. (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. (d) General protective and hygienic measures: 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. 		

(a) Appearance: Liquid (b) Odour: Characteristic (c) Initial boiling point and boiling range: > 100°C	Physical & Chemical Properties		
 (b) Odour: Characteristic (c) Initial boiling point and boiling range: > 100°C 			
(c) Initial boiling point and boiling range: $> 100^{\circ}$ C			
Information on (d) Flash point: $> 200^{\circ}$ F			
basic physical and (e) Vapour pressure · 23 hPa (17 mm Hg) (Active Ingredient)			
9.1. basic physical and (c) vapout pressure : 25 in a (17 init Fig) (real to ingreation) (f) Bulk Density : 1.04 g/mL			
properties (f) Built Benny 1101 g mB (g) pH value: 4.7 (1% dilution) (Active Ingredient)			
(b) Solubility(ies): in water: 0.5mg/L (Active Ingredient)			
(i) Explosive properties: None			
(j) Oxidising properties: Not available			
9.2. Other information NA			
10. Stability and Reactivity 10.1 Description			
10.1ReactivityNot known10.2Chemical stabilityStable at normal temperature and pressure			
Possibility of			
hazardous reactions			
10.4 Conditions to avoid Avoid temperatures above 150° F and below 20° F. High temperature, sunlight, fros	st		
10.5 Incompatible materials Strong oxidizing agents			
Hazardous In case of fire. Cl. NO. Thermal decomposition may produce toxic carbon and nit	rogen oxides		
10.6 decomposition and hydrogen chloride	iogen oxides,		
products			
11. Toxico-logical Information			
(a) acute toxicity: Not toxic			
	(b) skin corrosion/irritation: Not irritating		
	(c) serious eye damage/irritation: Not irritating		
	(d) respiratory or skin sensitization: Not sensitizing		
affe at a	(e) Carcinogenicity: no known evidence		
effects (g) reproductive toxicity: no known evidence	(g) reproductive toxicity: no known evidence		
(h) STOT-single exposure: no known evidence			
(i) STOT-repeated exposure: no known evidence			
(j) Aspiration toxicity – category 1			
CAS no. Toxicity details			
CAS no.Toxicity details78587-05-0Acute toxicity :			
LD50 (oral-rat): $> 2000 \text{ mg/Kg}$; LD50 = $> 5000 \text{ mg/kg}$			
LD50 (dermal-rabbit): > 2000 mg/Kg			
LC50 (inhalation-rat): $> 5 \text{ mg/l}$ (4h)			
Numerical Mutagenicity: Hexythiazox resulted not mutagenic in the Ames as ADI Hexythiazox: 0.03 mg/Kg ADI Hexythiazox: 0.03 mg/Kg	ssay.		
measures of ADME . Heyythiazov is readily absorbed by mammals, and the m	aiority of		
11.2 toxicity (such as acute t			
estimates) 64/42-94-5 Acute toxicity :	<i>a</i> .		
estimates) $Acute toxicity :$ LD50 (oral-rat): > 5000 mg/Kg; LD50 = > 20,000 mg/kg bw	ng/L air		
estimates) $\begin{bmatrix} 64/42-94-5 \\ LD50 \text{ (oral-rat):} > 5000 \text{ mg/Kg; } LD50 = > 20,000 \text{ mg/kg bw} \\ LC50 \text{ (inhalation-rat):} > 5.28 \text{ mg/l analytical (4h); } LC50 > 6.03 \text{ mg/kg bw} \\ LC50 \text{ (inhalation-rat):} > 5.28 \text{ mg/l analytical (4h); } LC50 = > 20,000 \text{ mg/kg bw} \\ LC50 \text{ (inhalation-rat):} > 5.28 \text{ mg/l analytical (4h); } LC50 = > 20,000 \text{ mg/kg bw} \\ LC50 \text{ (inhalation-rat):} > 5.28 \text{ mg/l analytical (4h); } LC50 = > 20,000 \text{ mg/kg bw} \\ LC50 \text{ (inhalation-rat):} > 5.28 \text{ mg/l analytical (4h); } LC50 = > 20,000 \text{ mg/kg bw} \\ LC50 \text{ (inhalation-rat):} > 5.28 \text{ mg/l analytical (4h); } LC50 = > 20,000 \text{ mg/kg bw} \\ LC50 \text{ (inhalation-rat):} > 5.28 \text{ mg/l analytical (4h); } LC50 = > 20,000 \text{ mg/kg bw} \\ LC50 \text{ (inhalation-rat):} > 5.28 \text{ mg/l analytical (4h); } LC50 = > 20,000 \text{ mg/kg bw} \\ LC50 \text{ (inhalation-rat):} > 5.28 \text{ mg/l analytical (4h); } LC50 = > 20,000 \text{ mg/kg bw} \\ LC50 \text{ (inhalation-rat):} > 5.28 \text{ mg/l analytical (4h); } LC50 = > 20,000 \text{ mg/kg bw} \\ LC50 \text{ (inhalation-rat):} > 5.28 \text{ mg/l analytical (4h); } LC50 = > 20,000 \text{ mg/kg bw} \\ LC50 \text{ (inhalation-rat):} > 5.28 \text{ mg/l analytical (4h); } LC50 = > 20,000 \text{ mg/kg bw} \\ LC50 \text{ (inhalation-rat):} > 5.28 \text{ mg/l analytical (4h); } LC50 = > 20,000 \text{ mg/kg bw} \\ LC50 \text{ (inhalation-rat):} > 5.28 \text{ mg/l analytical (4h); } LC50 = > 20,000 \text{ mg/kg bw} \\ LC50 \text{ (inhalation-rat):} > 5.28 \text{ mg/l analytical (4h); } LC50 = > 20,000 \text{ mg/kg bw} \\ LC50 \text{ (inhalation-rat):} > 5.28 \text{ mg/l analytical (4h); } LC50 = > 20,000 \text{ mg/kg bw} \\ LC50 \text{ (inhalation-rat):} > 5.28 \text{ mg/l analytical (4h); } LC50 = > 20,000 \text{ mg/kg bw} \\ LC50 \text{ (inhalation-rat):} > 5.28 \text{ mg/l analytical (4h); } LC50 = > 20,000 \text{ mg/kg bw} \\ LC50 \text{ (inhalation-rat):} > 5.28 \text{ mg/l analytical (4h); } LC50 = > 20,000 \text{ mg/kg bw} \\ LC50 \text{ (inhalation-rat):} > 5.28 \text{ mg/l analytical (4h); } LC50 = > 20,000 \text{ mg/kg bw} \\ LC50 \text{ (inhalation-rat):} > 5.28 \text{ mg/l analytical (4h); } LC50 = > 20,000 \text{ mg/kg bw} \\ LC50 (inhalation$	in mouse		
estimates) $\begin{array}{ c c c c c } \hline & 64/42-94-5 & Acute toxicity: \\ LD50 (oral-rat): > 5000 mg/Kg; LD50 = > 20,000 mg/kg bw \\ LC50 (inhalation-rat): > 5.28 mg/l analytical (4h); LC50 > 6.03 m \\ LD50 (dermal-rabbit): > 2000 mg/Kg \end{array}$			
estimates) estimates) Acute toxicity : LD50 (oral-rat): > 5000 mg/Kg; LD50 = > 20,000 mg/kg bw LC50 (inhalation-rat): > 5.28 mg/l analytical (4h); LC50 > 6.03 m LD50 (dermal-rabbit): > 2000 mg/Kg Mutagenicity: Solvent naphtha resulted in negative Genotoxicity in lymphoma L5178Y cells, with and without metabolic activation.			
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estimates) 64/42-94-5 Acute toxicity : LD50 (oral-rat): > 5000 mg/Kg; LD50 = > 20,000 mg/kg bw LC50 (inhalation-rat): > 5.28 mg/l analytical (4h); LC50 > 6.03 m LD50 (dermal-rabbit): > 2000 mg/Kg Mutagenicity: Solvent naphtha resulted in negative Genotoxicity i lymphoma L5178Y cells, with and without metabolic activation. Reproductive toxicity: The reproduction NOAEL was 3000 and mg/kg/day in male and female Sprague Dawley rats respectively			
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estimates) 64/42-94-5 Acute toxicity : LD50 (oral-rat): > 5000 mg/Kg; LD50 = > 20,000 mg/kg bw LC50 (inhalation-rat): > 5.28 mg/l analytical (4h); LC50 > 6.03 m LD50 (dermal-rabbit): > 2000 mg/Kg Mutagenicity: Solvent naphtha resulted in negative Genotoxicity i lymphoma L5178Y cells, with and without metabolic activation. Reproductive toxicity: The reproduction NOAEL was 3000 and mg/kg/day in male and female Sprague Dawley rats respectively			

Hexy 2E

11.4	Additional information	 Product shows following danger according to internally approved calculation methods for preparation Harmful 		
12.	Ecological Informa	nation		
12.1.	Eco – Toxicity	CAS no.	Aquatic toxicity values	
		64742-94-5	 Toxicity for birds: LD50 Oral acute in Japanese Quail: > 5000 mg/Kg LD50 Oral acute in Mallard Ducks: > 2510 mg/Kg Toxicity for fish and aquatic fauna: LC50, 96h, in Lepomis Macrochirus: 11.6 mg/l EC50, 48h, in Daphnia Magna: 0.4 mg/l Fish - Chronic 21 day NOEC (mg l-1) = 0.04 mg/l invertebrates - Acute 48 hour EC50 (mg l-1) = > 0.47 invertebrates - Chronic 21 day NOEC (mg l-1) = 0.0061 mg/l Toxicity for fish and aquatic fauna 	
		0+7+2-57+-5	The 24, 48, 72, and 96 hour LL50 values for O. mykiss were calculated to be in the ranges of 5 to 17, 2 to 5, 2 to 5, and 2 to 5 mg/L, respectively. The NOEL was 2.0 mg/L. Invertebrate: The 48-hour EL50 was calculated to be 1.4 mg/L with a 95% confidence interval of 1.0 to 2.0 mg/L. Algae: The 24, 48, and 72 hour EL50 values (those loading rates resulting in a 50% reduction in growth rate after 24, 48, and 72 hours exposure) were all in the range of 1 to 3 mg/L	
		CAS no.	Persistence and degradability	
		78587-05-0	Its photolytic degradation goes slow, being its life average of 116 days. At pH 9 and 22°C it is hydrolyzed very slowly with a life average of 416 days.	
12.2.	Persistence and degradability	64742-94-5	Manometric Respirometry Test) guidelines, with the closed bottle test. It was performed in 1000 mL Biological Oxygen Demand (BOD) bottles. Kerosine Mid-Blend (purity unknown) was added to an aqueous solution of mineral salts and exposed to relatively low numbers of micro-organisms (density 1E+4) under aerobic conditions for a period of 28 days. Activated sludge was obtained from the Medford Municipal Wastewater Treatment Plant in that was added as 10 mL to the BOD bottles. The test was conducted at 22 degrees centigrade. Conclusion: After 28 days, there was a 58.6% degradation of the test substance.	
		CAS no.	BCF	
12.3.	Bio accumulative potential	64742-94-5	BCF = 1100 (Interpretation - Threshold for concern)Bioaccumulation potential = calculated as lowMeasured BCF values of 1000-1600 in whole fish and 300-510 in fish musclesuggests bioconcentration in aquatic organisms is high to very high.Hexythiazox has a reported half-life of 16.7 days in aqueous solution exposedto sunlight. Hexythiazox is reported to be stable in acidic and alkaline media,therefore it is not expected to undergo aqueous hydrolysis in the environment.Equation Used to Make BCF estimate:Log BCF = 0.6598 log Kow - 0.333 + CorrectionCorrection(s): ValueNo Applicable Correction Factors	
			Estimated Log BCF = 1.844 (BCF = 69.88 L/kg wet-wt)	
12.4.	Mobility in soil	CAS no. 78587-05-0	Soil Mobility In soil, it is degraded mainly by oxidation to produce hydroxy and carbonyl compounds. Soil degradation (days) (aerobic):- DT50 (typical) = 30 which indicates that the chemical is moderately persistent. Particulate-phase hexythiazox will be removed from the atmosphere by wet or dry deposition. Hexythiazox has a reported half-life of 16.7 days in aqueous solution exposed to sunlight and therefore may be susceptible to direct photolysis by sunlight. If released to soil, hexythiazox is expected to have no mobility based upon a measured Koc of 6200.	

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		64742-94-5 Soil Adsorption Coefficient (KOCWIN v2.00):		
		Koc : 1544 L/kg (MCI method); Log Koc: 3.189 (MCI method) Koc : 730.6 L/kg (Kow method); Log Koc: 2.864 (Kow method)		
		Experimental Log Koc: 2.96 (database)		
		Water hazard class : 2 (self-assessment) – hazardous to water		
12.5.	General	Do not allow the product to reach through ground water, water course or sewage system.		
12.5.	information	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 Considerat			
	Waste treatment	(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)		
13.1	methods	(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) Special precautions: Where appropriate, any special precautions for any recommended waste treatment option shall be identified.		
13.2	Additional	Any relevant Community provisions relating to waste shall be referred to. In their absence any		
	information:	relevant national or regional provisions in force shall be referred to.		
14.	Transport Informat			
		14.1. UN number : 3082		
		14.2. UN proper shipping name :		
		✓ ADR: 3082 Environmentally Hazardous Substance, Liquid, n.o.s. (Hexythiazox)		
		✓ DOT - Environmentally hazardous substance, Liquid, n.o.s. (Hexythiazox)		
		✓ IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexythiazox) MARINE POLLUTANT		
		✓ IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		
		(Hexythiazox)		
		14.3. Transport hazard class(es): 9		
	Information includes RID, ADR, AND, DOT, ICAO, IMDG,			
	IATA-DGR	14.4. Packing group : III		
		14.5. Environmental hazards (e.g., Marine pollutant (Yes/No)) : Yes		
		14.6. Special precautions for user : Warning		
		\checkmark Danger Code : 90;		
		✓ EMS Number : F-A,S-F		
		14.7. Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code : Not applicable		
		14.8. Additional information : ADR/ IMDG		
		\checkmark Limited quantities (LQ) – 5L; Excepted Quantities (EQ) – E1		
		✓ Maximum net quantity per inner packaging : 30 ml		
		✓ Maximum net quantity per outer packaging : 1000 ml		
15.	Regulatory Informa			
		 Product related hazard information : The product has been classified and marked in accordance with directives on hazardous materials Hazard statements: 		
	Safety, health and environmental regulations/other legislations	✓ Harmful if swallowed, inhaled or absorbed through skin.		
		• Signal word – CAUTION		
		Precautionary statements :		
15.1		✓ Avoid breathing vapor or spray mist.		
		 ✓ Avoid contact with skin, eyes, or clothing. ✓ Wash thoroughly with soap and water after handling and before eating, drinking, 		
		 wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. 		
		 ✓ Remove contaminated clothing and wash clothing before reuse. 		
		• Other regulations: Listed /not listed within the following regulation		
		✓ Sara - section 355 (extremely hazardous substance): none of the ingredients are listed.		

14		 Sara – section 313 (specific toxic chemical listing) : N-methyl-2-pyrrolidone (CAS No.: 872-50-4) TSCA: CAS NO.; 64742-94-5; 872-50-4; 7732-18-5 – all 3 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 : N-methyl-2-pyrrolidone 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	Section 1. Identification of the substance / minture and of the second section (. 1. (.1.))
16.1	Indication of changes	 Section 1: Identification of the substance/mixture and of the company/undertaking Section 2: Hazard Identification - Changes in Classification and Labelling. Section 3: Composition /Information on Ingredients Section 5: Fire-fighting measures Section 6: Accidental Release measures Section 7: Handling and storage. Section 8: Exposure Controls/Personal protection. Section 9: Physical and Chemical properties. Section 10: Stability and Reactivity. Section 11: Toxicological Information. Section 12: Ecological Information. Section 14: Transport labeling Section 15: Regulatory Information
16.2	Abbreviations and acronyms	 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
16.3	Key literature references and sources for data	 http://echa.europa.eu/search- chemicals;jsessionid=02A932957C1BA2098DAB8E49132CEFCB.live2 http://www.pesticideinfo.org/Detail_Chemical.jsp?Rec_Id=PC35477#Toxicity http://www.american-chemicals.com/productshow/704032.html http://www.chemicalbook.com/ChemicalProductProperty_US_CB1936559.aspx EPI Suite https://www.exxonmobilchemical.com/Chem-English/Files/Resources/aromatic-150-product- safety-summary.pdf http://www.totalpetrochemicalsusa.com/documents/ProductStewardship/Atosols%20Product%20S ummary%20-%20TPRI.pdf http://iaspub.epa.gov/sor_internet/registry/substreg/searchandretrieve/advancedsearch/externalSear ch.do?p_type=CASNO&p_value=64742-94-5 http://exxonmobilchemical.ides.com/en-

Hexy 2E

	US/ds243894/ExxonMobil%E2%84%A2%20Aromatic%20200.aspx?I=22455&U=0
•	http://megaloid.ca/MSDS/Aromatic%20200.pdf
•	http://www.chemnet.com/cas/en/78587-05-0/Hexythiazox.html
•	http://www.sigmaaldrich.com/MSDS/MSDS/PleaseWaitMSDSPage.do?language=&country=IN&
	brand=SIAL&productNumber=33365&PageToGoToURL=http%3A%2F%2Fwww.sigmaaldrich.c
	om%2Fcatalog%2Fsearch%3Fterm%3D78587-05-
	0%26interface%3DCAS%2520No.%26N%3D0%26mode%3Dmatch%2520partialmax%26lang%
	3Den%26region%3DIN%26focus%3Dproduct

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.