

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 11/03/2020 Version: 1.0

SECTION 1: Identifica	tion	
1.1. Identification		
Product form	: N	lixture
Product name	: C	sustom 608.3 Degradation Mix
Product code	: A	L0-131097
1.2. Recommended us	se and restrictions on u	Se
No additional information ava	ilable	
1.3. Supplier		
Phenova 6390 Joyce Dr. Suite 100 Golden, CO 80403 - United S T 1-866-942-2978 - F 1-866- info@phenova.com - www.pl	283-0269	
1.4. Emergency teleph	ione number	
Emergency number		hemTel Assistance (US/Canada) 1-800-255-3924 hemTel Assistance (International) +1 813-248-0585
SECTION 2: Hazard(s) identification	
2.1. Classification of t	he substance or mixtur	e
GHS US classification		
Flammable liquids Category 2	H225	Highly flammable liquid and vapor
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Carcinogenicity Category	H350	May cause cancer
Specific target organ toxicity (single exposure) Category 3	H336	May cause drowsiness or dizziness
Specific target organ toxicity (repeated exposure)	H373	May cause damage to organs through prolonged or repeated exposure

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Category 2

Hazard pictograms (GHS US)



Signal word (GHS US) : Danger Hazard statements (GHS US) H225 - Highly flammable liquid and vapor H315 - Causes skin irritation H336 - May cause drowsiness or dizziness H350 - May cause cancer H373 - May cause damage to organs through prolonged or repeated exposure Precautionary statements (GHS US) : P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P260 - Do not breathe dust/fume/gas/mist/vapors/spray. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. P264 - Wash hands, forearms and face thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 - If on skin: Wash with plenty of water. P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

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skin with water/shower.	
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.	
P308+P313 - If exposed or concerned: Get medical advice/attention.	
P312 - Call a poison center or doctor if you feel unwell.	
P314 - Get medical advice/attention if you feel unwell.	
P321 - Specific treatment (see supplemental first aid instruction on this label).	
P332+P313 - If skin irritation occurs: Get medical advice/attention.	
P362+P364 - Take off contaminated clothing and wash it before reuse.	
P370+P378 - In case of fire: Use media other than water to extinguish.	
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.	
P403+P235 - Store in a well-ventilated place. Keep cool.	
P501 - Dispose of contents/container to hazardous or special waste collection point, in	
accordance with local, regional, national and/or international regulation.	
. Other hazards which do not result in classification	
additional information available	

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

2.4	Substances
3.1.	Substances

Not applicable

3.2. Mixtures

Name	Product identifier	Conc.
hexane (Component)	(CAS-No.) 110-54-3	99.85
4,4'-DDT (Component)	(CAS-No.) 50-29-3	0.1

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effects	s (acute and delayed)
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
4.3. Immediate medical attention and spec	cial treatment, if necessary
No additional information available	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishir	ng media
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Specific hazards arising from the che	mical
No additional information available	
5.3. Special protective equipment and pre	cautions for fire-fighters
Firefighting instructions	 Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

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SECTION 6: Accidental release meas	sures	
6.1. Personal precautions, protective equ	uipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Evacuate unnecessary personnel.	
6.1.2. For emergency responders		
Protective equipment	: Equip cleanup crew with proper protection.	
Emergency procedures	: Ventilate area.	
6.2. Environmental precautions		
Prevent entry to sewers and public waters. Notify	authorities if liquid enters sewers or public waters.	
6.3. Methods and material for containme	nt and cleaning up	
Methods for cleaning up	: Take up in absorbent material. Collect spillage.	
6.4. Reference to other sections		
See Heading 8. Exposure controls and personal	protection.	
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.	
Hygiene measures	: Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage conditions	: Keep container closed when not in use. Keep container tightly closed and in a well-ventilated place. Keep away from any flames or sparking source.	
Incompatible materials	: Direct sunlight.	

SECTION 8: Exposure controls/personal protection

8.1. Control pa	rameters	
Custom 608.3 Deg	radation Mix	
ACGIH	Local name	n-Hexane
ACGIH	ACGIH TWA (ppm)	50 ppm
ACGIH	Remark (ACGIH)	CNS impair; peripheral neuropathy; eye irr; Skin; BEI
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m³)	1800 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	500 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
4,4'-DDT (50-29-3)		
ACGIH	Local name	DDT
ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³
ACGIH	Remark (ACGIH)	Liver dam
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m ³)	1 mg/m ³
OSHA	Regulatory reference (US-OSHA)	OSHA
NIOSH	NIOSH REL (TWA) (mg/m ³)	0.5 mg/m ³
hexane (110-54-3)	· · · · · · · · · · · · · · · · · · ·	
ACGIH	Local name	n-Hexane
ACGIH	ACGIH TWA (ppm)	50 ppm
ACGIH	Remark (ACGIH)	CNS impair; peripheral neuropathy; eye irr; Skin; BEI
ACGIH	Regulatory reference	ACGIH 2018

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hexane (110-54-3)		
OSHA	OSHA PEL (TWA) (mg/m³)	1800 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	500 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA

8.2. Appropriate engineering controls

Appropriate engineering controls : Either local exhaust or general room ventilation is usually required.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety glasses.

Hand protection:

Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration

Eye protection:

Chemical goggles or safety glasses. Safety glasses

Skin and body protection:

Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact

Respiratory protection:

Wear appropriate mask

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
	: Colorless
	: characteristic
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available

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Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosion limits	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
9.2. Other information		
No additional information available		
SECTION 10: Stability and reactivity		
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
Not established.		
10.3. Possibility of hazardous reactions		
Not established.		
10.4. Conditions to avoid		
Direct sunlight. Extremely high or low temperatur	es.	
10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition products		
No additional information available		
SECTION 11: Toxicological informati	on	
11.1. Information on toxicological effects		
Acute toxicity	: Not classified	
4,4'-DDT (50-29-3)		
LD50 oral rat	87 mg/kg (Rat, Oral)	
LD50 dermal rabbit	300 mg/kg	
ATE US (oral)	87 mg/kg body weight	
ATE US (dermal)	300 mg/kg body weight	
hexane (110-54-3)		
LD50 oral rat	16000 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)	
LD50 dermal rabbit	> 3350 mg/kg body weight (Equivalent or similar to OECD 402, 4 h, Rabbit, Male, Read- across, Dermal)	
LC50 inhalation rat (ppm)	> 5000 ppm (Equivalent or similar to OECD 403, 24 h, Rat, Male, Experimental value, Inhalation (vapours))	
ATE US (oral)	16000 mg/kg body weight	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	Based on available data, the classification criteria are not met	
	: May cause cancer.	
4,4'-DDT (50-29-3) National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen	
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met	
STOT-single exposure	: May cause drowsiness or dizziness.	
	. may sudde drowellioos of dizzinooo.	
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard	: Not classified	
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Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 12: Ecological information

12.1. Toxicity

4,4'-DDT (50-29-3)		
LC50 fish 1	0.0017 mg/l (96 h, Salmo gairdneri)	
LC50 other aquatic organisms 1	0.0034 mg/l Oncorhynchus mykiss (rainbow trouit) 96 h	
EC50 Daphnia 1	0.00108 mg/l Immolbilization - Daphnia magna (Water flea) 48 h	
LC50 fish 2	0.01 mg/l Lepomis macrochirus (Bluegill) 96 h	
LOEC (acute)	150 mg/l Oncorhynchus mykiss (rainbow trout) 3 d	
NOEC (acute)	113 mg/l Oncorhynchus mykiss (rainbow trout) 3 d	

2.2. Persistence and degradability		
Custom 608.3 Degradation Mix		
Persistence and degradability Not established.		
4,4'-DDT (50-29-3)		
Persistence and degradability Not readily biodegradable in water.		
hexane (110-54-3)		
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.	
ThOD	3.52 g O₂/g substance	

12.3. Bioaccumulative potential

Custom 608.3 Degradation Mix		
Bioaccumulative potential	Not established.	
4,4'-DDT (50-29-3)		
BCF fish 1	29400 (768 h, Pimephales promelas)	
BCF fish 2	25900 (Cyprinus carpio, Test duration: 10 weeks)	
BCF other aquatic organisms 1	9350 (Chlorella sp., Fresh weight)	
BCF other aquatic organisms 2 23650 (Mytilus edulis, Fresh weight)		
Partition coefficient n-octanol/water (Log Pow)	fficient n-octanol/water (Log Pow) 6.19	
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).	
hexane (110-54-3)		
BCF fish 1	501.187 (Other, Pimephales promelas, QSAR)	
Partition coefficient n-octanol/water (Log Pow)	w) 4 (Experimental value, Equivalent or similar to OECD 107, 20 °C)	
Bioaccumulative potential	Potential for bioaccumulation (500 \leq BCF \leq 5000).	

12.4. Mobility in soil

4,4'-DDT (50-29-3)		
Ecology - soil	Toxic to flora. Soil contaminant.	
hexane (110-54-3)		
Surface tension	0.018 N/m (25 °C, 1 g/l)	
Partition coefficient n-octanol/water (Log Koc)	3.34 (log Koc, QSAR)	
Ecology - soil	Low potential for mobility in soil.	

12.5. Other adverse effects

Custom 608.3 Degradation Mix		
4,4'-DDT (50-29-3)		
hexane (110-54-3)		

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Other information	id release to the environment.		
SECTION 13: Disposal consideration 13.1. Disposal methods	S		
Product/Packaging disposal recommendations Ecology - waste materials	Dispose in a safe manner in accordance with local/national regulations.Avoid release to the environment.		
SECTION 14: Transport information			
Department of Transportation (DOT) In accordance with DOT			
Transport document description UN-No.(DOT)	: UN1993 Flammable liquids, n.o.s. (hexane ;), 3, II : UN1993		
Proper Shipping Name (DOT)	: Flammable liquids, n.o.s. hexane ;		
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120		
Packing group (DOT)	: II - Medium Danger		
Hazard labels (DOT)	: 3 - Flammable liquid		
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202		
DOT Packaging Bulk (49 CFR 173.xxx)	: 242		
DOT Special Provisions (49 CFR 172.102)	 IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 11 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T7 - 4 178.274(d)(2) Normal		
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150		
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)			
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L		
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded		

section is exceeded. Emergency Response Guide (ERG) Number : 128 Other information : No supplementary information available.

Transportation of Dangerous Goods

Not applicable

Transport by sea

Transport document description (IMDG)	: UN 1993 FLAMMABLE LIQUID, N.O.S. (hexane ; 4,4'-DDT), 3, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
UN-No. (IMDG)	: 1993
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, N.O.S.

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Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting medium danger
Limited quantities (IMDG)	: 1L
Air transport	
Transport document description (IATA)	: UN 1993 Flammable liquid, n.o.s. (hexane ;), 3, II, ENVIRONMENTALLY HAZARDOUS
UN-No. (IATA)	: 1993
Proper Shipping Name (IATA)	: Flammable liquid, n.o.s.
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

4,4'-DDT (50-29-3)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313		
EPA TSCA Regulatory Flag	S - S - indicates a substance that is identified in a final Significant New Use Rule.	
CERCLA RQ	1 lb	
hexane (110-54-3)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313		
Listed on EPA Hazardous Air Pollutant (HAPS)		
CERCLA RQ 5000 lb		

15.2. International regulations

CANADA

4,4'-DDT (50-29-3)		
Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)		
hexane (110-54-3)		
Listed on the Canadian DSL (Domestic Substances List)		
EU-Regulations No additional information available		

National regulations

4,4'-DDT (50-29-3)

Listed on IARC (International Agency for Research on Cancer)		
Listed as carcinogen on NTP (National Toxicology Program)		
hexane (110-54-3)		

Listed on EPA Hazardous Air Pollutant (HAPS)

15.3. US State regulation

4,4'-DDT (50-29-	-3)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	Yes	Yes	Yes	2 μg/day	
hexane (110-54-	hexane (110-54-3)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
No	No	No	Yes		

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	SECTION 16: Other informatio	n			
[Data sources	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.			
(Other information	: None.			
F	Full text of H-phrases:				
	1100-				

	H225	Highly flammable liquid and vapor
-	H315	Causes skin irritation
	H336	May cause drowsiness or dizziness
	H350	May cause cancer
	H373	May cause damage to organs through prolonged or repeated exposure

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