

**SAFETY DATA SHEET**

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 06/23/2020

**BONANZA 480**  
SUPERSEDES: 12/14/2016

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier**

**Product Name** BONANZA 480

**Other means of identification**

**Product Code** PST-00136  
**UN/ID no** UN3082  
**Synonyms** None  
**Registration Number(s)** PCP 28289

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Herbicide.  
**Uses advised against** No information available

**Details of the supplier of the safety data sheet**

**Manufacturer Address**  
LOVELAND PRODUCTS CANADA, INC.  
789 Donnybrook Drive  
Dorchester, Ontario N0L 1G5

**Emergency telephone number**

**Company Phone Number** 1-800-328-4678  
**Emergency Telephone** Chemtrec 1-800-424-9300  
Medical Emergencies: 1-800-561-8273

**2. HAZARDS IDENTIFICATION**

**Classification**

**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Dermal	Category 4 - (H312)
Carcinogenicity	Category 1B - (H350)
Aspiration toxicity	Category 1 - (H304)
Flammable liquids	Category 4 - (H227)

**Label elements**



**Signal word**

**DANGER**

**Hazard statements**

H304 - May be fatal if swallowed and enters airways  
H312 - Harmful in contact with skin  
H350 - May cause cancer  
H227 - Combustible liquid

**Precautionary Statements - Prevention**

P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood



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 P281 - Use personal protective equipment as required

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**Precautionary Statements - Response**

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell  
 P331 - Do NOT induce vomiting  
 P363 - Wash contaminated clothing before reuse

**Precautionary Statements - Storage**

P405 - Store locked up

**Precautionary Statements - Disposal**

P501 - Dispose of contents/ container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Mixture**

Chemical Name	CAS No	Weight-%	GHS Classification	Trade Secret
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	30 - 60	Asp. Tox. 1 (H304)	*
Trifluralin	1582-09-8	30 - 60		*
Naphthalene	91-20-3	3 - 7	Acute Tox. 4 (H302) Carc. 2 (H351) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.  
 OSHA Hazard Communication 29 CFR 1910.1200



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### 4. FIRST AID MEASURES

#### Description of first aid measures

<b>General advice</b>	Get medical attention if symptoms occur.
<b>Eye contact</b>	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
<b>Skin contact</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
<b>Inhalation</b>	Remove to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.
<b>Ingestion</b>	Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
<b>Self-protection of the first aider</b>	Use personal protective equipment as required.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

#### Indication of any immediate medical attention and special treatment needed

**Treatment:** Treat symptomatically. Symptoms may be delayed. For a medical emergency involving this product call: 1-800-561-8273. Take container, label or product name with you when seeking medical attention.

**Note to physicians** No specific antidote. Treat symptomatically.

**Antidotes** No data available

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing agent suitable for type of surrounding fire, Use CO<sub>2</sub>, dry chemical, or foam

#### Explosion data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

#### Protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate fire and deny unnecessary entry.



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### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### Environmental precautions

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

#### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers. Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Dam up. Soak up with inert absorbent material.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

**Advice on safe handling** Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation.

#### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

**Incompatible materials** None known based on information supplied.



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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters

**Exposure Guidelines**

Appropriate engineering controls

**Engineering Controls**                      Showers  
   Eyewash stations  
   Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection**                      Tight sealing safety goggles. Face protection shield.

**Skin and body protection**                Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Respiratory protection**                    Dependent on job function. If vapors or dusts exceed acceptable levels, wear a MSHA/NIOSH approved air-purifying respirator with any cartridges/filters approved for pesticides. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection Standard. Wear a supplied air respirator if exposure concentrations are unknown.

**General Hygiene Considerations**        When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear liquid
Color	Orange
Odor	Mild aromatic
Odor threshold	No data available

<u>Property</u>	<u>Values (Remarks - Method)</u>
pH	5.8 - 6.5 (1% solution)
Melting point / freezing point	No data available
Boiling point	232 - 275 (solvent) °C
Flash point	> 93 °C / > 200 °F Pensky-Martens Closed Cup (PMCC)
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Flammability Limit in Air	
Upper flammability limit:	11.8% (based on the solvent)
Lower flammability limit:	1.8% (based on the solvent)
Vapor pressure	< 1 mm Hg @ 20 °C
Vapor density	No data available
Specific Gravity	1.12 g/ml
Water solubility	Emulsifies
Solubility in other solvents	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	5.2 cP @ 25 °C
Explosive properties	No data available
Oxidizing properties	No data available

#### Other Information

VOC Content (%)	No data available
Density	1.12kg/L

**Note:** These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.



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### 10. STABILITY AND REACTIVITY

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to avoid**

Extremes of temperature and direct sunlight.

**Incompatible materials**

None known based on information supplied.

**Hazardous Decomposition Products**

None known based on information supplied.



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**11. TOXICOLOGICAL INFORMATION**

**Acute toxicity of the formulated product:**

**Oral LD<sub>50</sub>** > 5,000 mg/kg (rat)  
**Dermal LD<sub>50</sub>** > 2,000 mg/kg (rabbit)  
**Inhalation (Dust) LC<sub>50</sub>** > 7.74 mg/l (rat, 4 hr)

Chemical Name	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC <sub>50</sub>
Solvent naphtha (petroleum), heavy aromatic	> 5000 mg/kg ( Rat )	> 2 mL/kg ( Rabbit )	> 590 mg/m <sup>3</sup> ( Rat ) 4 h
Naphthalene	= 1110 mg/kg ( Rat ) = 490 mg/kg ( Rat )	(= 1120 mg/kg ( Rabbit ) > 20 g/kg ( Rabbit )	> 340 mg/m <sup>3</sup> ( Rat ) 1 h

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Germ cell mutagenicity** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Naphthalene 91-20-3	A3	Group 2B	Reasonably Anticipated	X

*ACGIH (American Conference of Governmental Industrial Hygienists)  
 A3 - Animal Carcinogen  
 IARC (International Agency for Research on Cancer)  
 Group 2B - Possibly Carcinogenic to Humans  
 NTP (National Toxicology Program)  
 Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen  
 OSHA (Occupational Safety and Health Administration of the US Department of Labor)  
 X - Present*

**Reproductive toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Chronic toxicity** Avoid repeated exposure. May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects.  
**Target Organ Effects** blood, Central nervous system, Eye damage/irritation, kidney, liver, Skin.  
**Aspiration hazard** No information available.

**Information on likely routes of exposure**

**Product Information** No data available  
**Inhalation** No data available.  
**Eye contact** No data available.  
**Skin contact** No data available.  
**Ingestion** No data available.





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**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Solvent naphtha (petroleum), heavy aromatic 64742-94-5	EC50 2.5 mg/L 72 h Skeletonema costatum	LC50 19 mg/L 96 h Pimephales promelas LC50 2.34 mg/L 96 h Oncorhynchus mykiss LC50 1740 mg/L 96 h Lepomis macrochirus LC50 45 mg/L 96 h Pimephales promelas LC50 41 mg/L 96 h Pimephales promelas	EC50 0.95 mg/L 48 h Daphnia magna
Naphthalene 91-20-3	EC50 0.4 mg/L 72 h Skeletonema costatum	LC50 5.74 - 6.44 mg/L 96 h Pimephales promelas LC50 1.6 mg/L 96 h Oncorhynchus mykiss LC50 0.91 - 2.82 mg/L 96 h Oncorhynchus mykiss LC50 1.99 mg/L 96 h Pimephales promelas LC50 31.0265 mg/L 96 h Lepomis macrochirus	LC50 2.16 mg/L 48 h Daphnia magna EC50 1.96 mg/L 48 h Daphnia magna EC50 1.09 - 3.4 mg/L 48 h Daphnia magna

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Other adverse effects**

No information available



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**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal of wastes**

Do not reuse containers for any purpose. Make the empty container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Do not contaminate water, food, or feed by storage or disposal. For disposal, the container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse the product container for any other purpose.

**Contaminated packaging**

Do not reuse container.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Naphthalene 91-20-3	U165	Included in waste streams: F024, F025, F034, F039, K001, K035, K060, K087, K145	-	U165

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Naphthalene 91-20-3	-	-	Toxic waste waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.	-

**14. TRANSPORT INFORMATION**

<b>DOT UN/ID no</b>	UN3082
<b>Proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s., (Trifluralin)
<b>U.S. Surface Freight Classification:</b>	COMPOUND, TREE OR WEED KILLING, NOI (NMFC 50320, SUB 2: CLASS: 60)
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Reportable Quantity (RQ)</b>	Trifluralin: RQ kg= 10.56, Naphthalene: RQ kg= 684.77
<b>Special Provisions</b>	8, 146, 173, 335, IB3, T4, TP1, TP29
<b>Emergency Response Guide Number</b>	171
<b>TDG UN/ID no</b>	UN3082
<b>Proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s., (Trifluralin)
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Special Provisions</b>	16, 99
<b>Emergency Response Guide Number</b>	171

Notes:

- 1) A marine pollutant based on Section 2.7 of TDG Regulations
- 2) Certain exemptions from TDG Regulations requirements may apply for land transport as stated in Section 1.45.1 and Special Provision 99 of Regulations
- 3) Packages may bear USDOT markings and labels – Part 9.4 of the TDG Regulations may be used for reshipping of this product



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**15. REGULATORY INFORMATION**

<u><b>NFPA</b></u>	Health hazards 2	Flammability 2	Instability 0	Physical and Chemical Properties - Personal protection X	
<u><b>HMIS</b></u>	Health hazards 2	Flammability 2	Physical hazards 0		
	0 - Least	1 - Slight	2 - Moderate	3 - High	4 - Severe

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Naphthalene - 91-20-3	0.1

**SARA 311/312 Hazard Categories**

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Naphthalene 91-20-3	100 lb	X	X	X

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Naphthalene 91-20-3	100 lb 1 lb	-	RQ 100 lb final RQ RQ 45.4 kg final RQ RQ 1 lb final RQ RQ 0.454 kg final RQ

**US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Naphthalene - 91-20-3	Carcinogen

**US EPA Waste Number** U165

**U.S. EPA Label Information**



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### 16. OTHER INFORMATION

**Prepared By** Product Stewardship and Regulatory Affairs

**Reviewed By** Safety, Health and Environment

**Issue Date** 06/23/2020

**Revision Date** 06/23/2020

**Revision Note**

All SDS sections updated

**BONANZA 480** is a registered trademark of Loveland Products Canada, Inc.

**Disclaimer**

This safety data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS CANADA, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

**End of Safety Data Sheet**