

CI Orange Crush

Citrus Industrial Degreaser Powder — Heavy-Duty Cleaning, Degreasing, and Soak Tank Applications

HEALTH 2	FIRE 0	REACTIVITY 0	SIGNAL: DANGER
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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product name:	CI Orange Crush
Use of substance/mixture:	Citrus industrial degreaser powder for cleaning and degreasing of concrete, metal, plastic, painted equipment, and wood fixtures
Product code:	CI-ORC-50LB
Company:	Chem International (a division of Aliysha Enterprises Ltd.) 10770-180 Street NW, Edmonton, AB T5S 2S4
Phone:	1-800-665-7287 info@chemintonline.com
Website:	chemintonline.com
Emergency phone:	CHEMTREC: 1-800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS/WHMIS classification:	Skin Corrosion/Irritation — Category 1B (H314) Skin Sensitization — Category 1 (H317)
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2.2. Label Elements

Hazard pictograms:	GHS05 (Corrosion) GHS07 (Exclamation mark)
Signal word:	DANGER
Hazard statements:	H314 — Causes severe skin burns and eye damage. H317 — May cause an allergic skin reaction.
Precautionary — Prevention:	P260 — Do not breathe dust. P261 — Avoid breathing dust. P264 — Wash thoroughly after handling. P272 — Contaminated work clothing must not be allowed out of the workplace. P280 — Wear eye protection, protective clothing, and protective gloves.
Precautionary — Response:	P301+P312 — If swallowed: rinse mouth. Do NOT induce vomiting. P302+P352 — If on skin: wash with plenty of soap and water. P303+P361+P353 — If on skin (or hair): take off all contaminated clothing immediately. Rinse skin with water. P304+P340 — If inhaled: remove person to fresh air and keep comfortable for breathing. P305+P351+P338 — If in eyes: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P310 — Immediately call a poison centre or physician. P333+P313 — If skin irritation or rash occurs: get medical advice. P363 — Wash contaminated clothing before reuse.
Precautionary — Storage:	P405 — Store locked up.

Precautionary — Disposal:

P501 — Dispose of contents and container in accordance with local, provincial, and federal regulations.

2.3. Other Hazards

Other hazards: No additional information available.

2.4. Unknown Acute Toxicity

Unknown acute toxicity: Not applicable.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**3.1. Substances**

Substances: Not applicable — mixture.

3.2. Mixtures

Chemical Name	Product Identifier	%	GHS-CA Classification
Sodium carbonate	CAS 497-19-8	55–70%	Eye Irrit. 2A, H319
Trisodium orthophosphate, dodecahydrate	CAS 10101-89-0	3–7%	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
Disodium metasilicate	CAS 6834-92-0	3–7%	Skin Corr. 1B, H314 STOT SE 3, H335
(+)-Limonene (d-Limonene)	CAS 5989-27-5	1–5%	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
Benzenesulfonic acid, C10-16-alkyl derivatives	CAS 68584-22-5	1–5%	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314
UNDECETH-5	CAS 34398-01-1	1–5%	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Sodium trimetaphosphate	CAS 7785-84-4	0.1–0.2%	Not classified

A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or reflects batch variation.

CI Orange Crush — Safety Data Sheet (continued)

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

General:	If you feel unwell, seek medical advice. Show the label where possible.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin contact:	Take off contaminated clothing and wash before reuse. Wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice.
Eye contact:	Rinse immediately with plenty of water. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a poison centre or physician.
Ingestion:	Rinse mouth. Do NOT induce vomiting. Consult a physician if unwell.

4.2. Most Important Symptoms and Effects (Acute and Delayed)

General:	Causes severe skin burns and eye damage.
Inhalation:	May cause respiratory irritation.
Skin contact:	Caustic burns and corrosion of the skin. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.
Eye contact:	Causes serious eye damage. Corrosion of eye tissue. Risk of permanent eye damage.
Ingestion:	Burns to gastric/intestinal mucosa. Gastrointestinal complaints. Nausea. Diarrhoea.

4.3. Indication of Immediate Medical Attention

Treatment:	Treat symptomatically. Seek emergency medical attention for skin or eye burns.
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SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing Media

Suitable media:	Adapt extinguishing media to the surrounding environment.
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5.2. Special Hazards

Reactivity:	Upon combustion: CO and CO ₂ are formed.
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5.3. Advice for Firefighters

Firefighting instructions:	Exercise caution when fighting any chemical fire. Use water moderately; collect and contain runoff where possible. Use water spray or fog to cool exposed containers.
Protection:	Do not enter fire area without proper protective equipment, including full SCBA and chemical-resistant clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General measures: Isolate from fire if possible without unnecessary risk.

6.1.1. For Non-Emergency Personnel

Protective equipment: Safety glasses. Chemical-resistant gloves. Protective clothing.

Emergency procedures: Evacuate unnecessary personnel. Avoid skin, eye, and clothing contact. Ventilate spillage area.

6.1.2. For Emergency Responders

Protective equipment: Equip cleanup crew with full appropriate protection.

Emergency procedures: Stop leak if safe. Stop release. Ventilate area.

6.2. Environmental Precautions

Environmental: Avoid release to the environment. Prevent soil and water pollution.

6.3. Methods and Materials for Containment and Cleanup

Containment: Contain released substance and pump into suitable containers.

Cleanup: This material and its container must be disposed of safely and in accordance with local legislation.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Safe handling: Comply with legal requirements. Do not handle until all safety precautions have been read and understood. Use appropriate PPE. Do not eat, drink, or smoke when using this product. Do not get in eyes, on skin, or on clothing.

Hygiene: Wash thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for Safe Storage

Storage: Keep container closed when not in use. Store in original container in a cool, dry area. Incompatible materials: Strong acids. Oxidizing agents.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control Parameters

Ingredient	Occupational Exposure Limit
Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)	Not applicable
(+)-Limonene (5989-27-5)	Not applicable
UNDECETH-5 (34398-01-1)	Not applicable
Disodium metasilicate (6834-92-0)	Not applicable
Sodium carbonate (497-19-8)	Not applicable
Trisodium orthophosphate, dodecahydrate (10101-89-0)	Not applicable

8.2. Exposure Controls

Personal protective equipment: Safety glasses or goggles. Chemical-resistant gloves. Protective clothing. Use appropriate PPE when risk assessment indicates this is necessary.

CI Orange Crush — Safety Data Sheet (continued)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical state:	Solid
Appearance:	Fine, free-flowing orange powder
Odour:	Citrus scent
Odour threshold:	No data available
pH:	12.5 (10% solution)
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):	No data available
Explosion limits:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available
Vapour pressure:	No data available
Relative density:	No data available
Relative vapour density at 20°C:	No data available
Specific gravity / density:	Not determined
Solubility:	Soluble in water
Log Pow / Log Kow:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
VOC content:	< 3%

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:	Upon combustion: CO and CO ₂ are formed.
10.2. Chemical stability:	No additional information available.
10.3. Hazardous reactions:	Refer to Section 10.1.
10.4. Conditions to avoid:	No additional information available.

10.5. Incompatible materials: Oxidizing agents. Strong acids.

10.6. Hazardous decomposition products: Under normal storage and use conditions, hazardous decomposition products should not be produced.

CI Orange Crush — Safety Data Sheet (continued)

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute toxicity: Not classified.

Ingredient	Toxicological Data
Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)	LD50 oral rat: 530 mg/kg
(+)-Limonene (5989-27-5)	LD50 oral rat: 4400 mg/kg (OECD 423) LD50 dermal rabbit: > 5000 mg/kg (OECD 402) ATE CLP (oral): 4400 mg/kg
UNDECETH-5 (34398-01-1)	LD50 oral rat: > 1400 mg/kg
Sodium carbonate (497-19-8)	LD50 oral rat: 2800 mg/kg LD50 dermal rabbit: > 2000 mg/kg ATE CLP (oral): 2800 mg/kg
Trisodium orthophosphate, dodecahydrate (10101-89-0)	LD50 oral rat: 7400 mg/kg (OECD 420) LD50 dermal rabbit: > 7940 mg/kg LC50 inhalation rat: > 0.83 mg/L/4h

Skin corrosion/irritation: Causes severe skin burns and eye damage. pH: 12.5 (10% solution).**Serious eye damage/irritation:** Not classified. pH: 12.5 (10% solution).**Respiratory/skin sensitization:** May cause an allergic skin reaction.**Germ cell mutagenicity:** Not classified.**Carcinogenicity:** Not classified. (+)-Limonene (5989-27-5): IARC Group 3 — not classifiable.**Reproductive toxicity:** Not classified.**STOT — single exposure:** Not classified.**STOT — repeated exposure:** Not classified.**Aspiration hazard:** Not classified.

Symptoms Summary

Inhalation: May cause respiratory irritation.**Skin contact:** Caustic burns and corrosion of the skin. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.**Eye contact:** Causes serious eye damage. Corrosion of eye tissue. Risk of permanent eye damage.**Ingestion:** Burns to gastric/intestinal mucosa. Gastrointestinal complaints. Nausea. Diarrhoea.**Likely routes of exposure:** Skin and eye contact.

CI Orange Crush — Safety Data Sheet (continued)

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Endpoint	Value
(+)-Limonene (5989-27-5) — LC50 fish	720 µg/L (OECD 203, 96h, Pimephales promelas, flow-through, fresh water)
(+)-Limonene — EC50 Daphnia	0.36 mg/L (OECD 202, 48h, Daphnia magna, static, fresh water)
(+)-Limonene — Threshold algae	150 mg/L (OECD 201, 72h, Desmodesmus subspicatus)
UNDECETH-5 — LC50 fish	< 10 mg/L
UNDECETH-5 — EC50 Daphnia	< 10 mg/L
UNDECETH-5 — ErC50 algae	< 10 mg/L
Sodium carbonate — LC50 fish	300 mg/L (96h, Lepomis macrochirus, static, fresh water)
Sodium carbonate — Threshold algae	242 mg/L (EC50, 5 days)
Trisodium orthophosphate — EC50 Daphnia	> 100 mg/L (OECD 202, 48h, Daphnia magna)
Trisodium orthophosphate — Threshold algae	> 100 mg/L (OECD 201, 72h, Desmodesmus subspicatus)

12.2. Persistence and Degradability

Ingredient	Persistence / Degradability
(+)-Limonene (5989-27-5)	Readily biodegradable in water. May form sediments. Adsorbs into soil. ThOD: 3.29 g O ₂ /g substance.
Sodium carbonate (497-19-8)	Biodegradability: not applicable. Low potential for adsorption in soil.
Trisodium orthophosphate, dodecahydrate	Biodegradability: not applicable. No mobility data available.

12.3. Bioaccumulative Potential

Ingredient	Bioaccumulative Potential
(+)-Limonene (5989-27-5)	BCF fish: 864.8–1022 (BCFBAF, Pisces). Log Pow: 4.38. Potential for bioaccumulation ($4 \leq \text{Log Kow} \leq 5$).
Sodium carbonate (497-19-8)	Log Pow: -6.19 (estimated). Low potential for bioaccumulation.
Trisodium orthophosphate, dodecahydrate	Not bioaccumulative.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Product/packaging disposal:	Dispose in a safe manner in accordance with local, provincial, and federal regulations. Do not discharge concentrated alkaline solution to drains without neutralization.
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SECTION 14: TRANSPORT INFORMATION

TDG classification (Canada):	Not regulated for transport.
DOT (US):	Not regulated for transport.
ADR / IATA / IMDG:	No additional information available.

SECTION 15: REGULATORY INFORMATION

WHMIS 2015:	This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR). This SDS contains all information required by the HPR.
TSCA (US):	All components are listed or excluded from listing on the US EPA TSCA inventory.
SARA 311/312 Hazard Classes:	UNDECETH-5 (34398-01-1): Immediate (acute) health hazard.
CERCLA RQ:	Trisodium orthophosphate, dodecahydrate: 5000 lb Sodium trimetaphosphate: 5000 lb
California Prop. 65:	This product contains, or may contain, trace quantities of substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm.

SECTION 16: OTHER INFORMATION

Prepared by:	Chem International — Technical Department
Issue date:	April 2026
Revision date:	April 2026
Version:	1.0
Training advice:	Normal use of this product shall imply use in accordance with the instructions on the label and SDS.

Full Text of H-Phrases

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation

NFPA Health Hazard	2	HMIS Health	2
NFPA Fire Hazard	0	HMIS Flammability	0
NFPA Reactivity	0	HMIS Reactivity	0
NFPA Special	—	HMIS Protection	B

DISCLAIMER: This Safety Data Sheet is prepared in accordance with the Hazardous Products Regulations (WHMIS 2015) and GHS requirements. The information contained herein is based on data considered accurate as of the date of preparation. No warranty, expressed or implied, is made regarding the accuracy of this data or results obtained from its use. Chem International assumes no responsibility for personal injury or property damage resulting from use of this product outside of conditions described herein. Users assume all risks associated with the use of this material and are responsible for full compliance with all applicable regulations.

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