

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • **Image Mate Degreaser 260**

Product Description • Clear liquid.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s) • Screen degreaser

1.3 Details of the supplier of the safety data sheet

Manufacturer • IKONICS Corporation
4832 Grand Ave.
Duluth, MN 55807
United States
www.ikonics.com
sds@ikonics.com

Telephone (General) • (218) 628-2217

Telephone (General) • (800) 328-4261 - Toll free

1.4 Emergency telephone number

Chemtrec • 1-800-424-9300 – Within USA and Canada
+1 703-527-3887 – Outside USA and Canada (collect calls accepted)

Section 2: Hazards Identification

UN GHS

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS): Seventh Revised Edition

2.1 Classification of the substance or mixture

UN GHS • Skin Irritation 2 - H315
Skin Sensitization 1 - H317
Serious Eye Damage 1 - H318
Hazardous to the aquatic environment Chronic 2 – H411

2.2 Label elements

UN GHS

DANGER



Hazard statements • H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H411 - Hazardous to the aquatic environment Chronic 2

Precautionary statements

Prevention • P261 - Avoid breathing dust, fume, gas, mist, vapors and/or spray.

P264 - Wash thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment. -
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

- Response**
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
 - P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 - 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 CENTER or doctor/physician.
 - P321 - Specific treatment, see supplemental first aid information.
 - P362 - Take off contaminated clothing and wash before reuse.
 - P391 - Collect spillage.

- Storage/Disposal**
- P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

- UN GHS**
- No data available

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

- OSHA HCS 2012**
- Skin Irritation 2 - H315
 - Skin Sensitization 1 - H317
 - Serious Eye Damage 1 - H318

2.2 Label elements

OSHA HCS 2012

DANGER



- Hazard statements**
- Causes skin irritation - H315
 - May cause an allergic skin reaction - H317
 - Causes serious eye damage - H318

Precautionary statements

- Prevention**
- Avoid breathing dust, fume, gas, mist, vapors and/or spray. - P261
 - Contaminated work clothing should not be allowed out of the workplace. - P272
 - Avoid release to the environment. - P273
 - Wash thoroughly after handling. - P264
 - Wear protective gloves/protective clothing/eye protection/face protection. - P280
- Response**
- IF ON SKIN: Wash with plenty of soap and water. - P302+P352
 - If skin irritation or rash occurs: Get medical advice/attention. - P333+P313
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338
 - Immediately call a POISON CENTER or doctor/physician. - P310
 - Specific treatment, see supplemental first aid information. - P321
 - Take off contaminated clothing and wash before reuse. - P362
 - Collect spillage. - P391
- Storage/Disposal**
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

2.3 Other hazards

- OSHA HCS 2012**
- No data available

Canada
According to WHMIS 2015

2.1 Classification of the substance or mixture

- WHMIS 2015
- Skin Irritation 2 - H315
Skin Sensitization 1 - H317
Serious Eye Damage 1 - H318

2.2 Label elements

WHMIS 2015

DANGER



- Hazard statements**
- Causes skin irritation - H315
May cause an allergic skin reaction - H317
Causes serious eye damage - H318

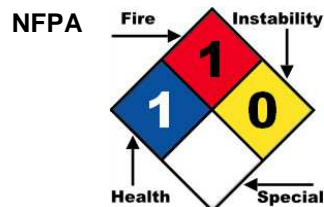
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- Avoid breathing dust, fume, gas, mist, vapors and/or spray. - P261
Contaminated work clothing should not be allowed out of the workplace. - P272
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Take off contaminated clothing and wash before reuse. - P362
Collect spillage. - P391
- Storage/Disposal**
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

2.3 Other hazards

- WHMIS 2015
- No data available

2.4 Other information



See Section 12 for Ecological Information.

Section 3 - Composition/Information on Ingredients

3.1 Substances

3.2 Mixtures

Hazardous Components

Chemical Name	Identifiers	%(weight)	LD50/LC50	Classifications According to Regulation/Directive
Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched	CAS:68412-54-4	15% TO 20%		GHS: Acute Tox. Oral 4; Eye Dam. 1; Aquatic Chronic 2 OSHA / WHMIS: Acute Tox. Oral 4; Eye Dam. 1
1-methyl-4-(1-methylethenyl)cyclohexene	CAS:5989-27-5	13% TO 16%	Ingestion/Oral-Rat LD50 • 4400 mg/kg Skin-Rabbit LD50 • >5 g/kg	GHS: Flam. Liq. 3; Skin Irrit. 2; Skin Sens. 1; Aquatic Acute 1; Aquatic Chronic 1 OSHA / WHMIS: Flam. Liq. 3; Skin Irrit. 2; Skin Sens. 1
Diethylene glycol monobutyl ether	CAS:112-34-5	5% TO 7%	Ingestion/Oral-Rat LD50 • 5660 mg/kg Skin-Rabbit LD50 • 2700 mg/kg	GHS / OSHA / WHMIS: Eye Irrit. 2A
Ethoxylated octylphenol, branched	CAS:68987-90-6	5% TO 7%		GHS: Acute Tox Oral 4; Eye Dam. 1; Aquatic Chronic 2 OSHA / WHMIS: Acute Tox Oral 4; Eye Dam. 1
Acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt hydrate	CAS:64-02-8	3% TO 5%	Ingestion/Oral-Rat LD50 • 10 g/kg	GHS / OSHA / WHMIS: Eye Irrit. 2A; Skin Irrit. 2

See Section 11 for Toxicological Information.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration and call 911 or emergency medical service.

Skin

- IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Eye

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

Ingestion

- If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Rinse mouth. Never give anything by mouth to an unconscious person. If large quantities are swallowed, call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

- No data available

4.3 Indication of any immediate medical attention and special treatment needed

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media

- SMALL FIRES: Dry chemical, CO2, water spray or regular foam.
LARGE FIRE: Water spray, fog or regular foam.

Unsuitable Extinguishing Media

- No data available

Firefighting Procedures

- Fire fighters should wear complete protective clothing including self-contained breathing apparatus.
Keep unauthorized personnel away.
Ventilate closed spaces before entering.
LARGE FIRES: Use extinguishing agent suitable for type of surrounding fire.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- Some of these materials may burn, but none ignite readily.

Hazardous Combustion Products

- Products of combustion include: carbon oxides (COx), nitrogen oxides (NOx).

5.3 Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.
Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Ventilate enclosed areas.

Emergency Procedures

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) Keep unauthorized personnel away. Ventilate closed spaces before entering.

6.2 Environmental precautions

- LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Use appropriate Personal Protective Equipment (PPE)
Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

- Use good safety and industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Ventilate enclosed areas.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

8.2 Exposure controls

Engineering Measures/Controls

- Local exhaust is recommended but not required. Provide adequate ventilation as necessary.

Personal Protective Equipment

Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face

- Wear safety goggles.

Hands

- Wear protective gloves - rubber or neoprene.

Skin/Body

- Wear protective clothing - apron or other impervious body coverings.

General Industrial Hygiene Considerations

- Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls

- No data available

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Clear liquid.
Color	Colorless	Odor	Citrus
Taste	No data available		
General Properties			
Boiling Point	102 C(215.6 F)	Melting Point	No data available
pH	8.5	Specific Gravity/Relative Density	1.03 Water=1
Density	8.41 lbs/gal	Water Solubility	Dispersible
Viscosity	No data available		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	< 1 n-Butyl Acetate = 1	VOC (Wt.)	Not relevant
Volatiles (Wt.)	76.5 %		
Flammability			
Flash Point	> 100 C(> 212 F)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	Not relevant		
Environmental			
Half-Life	No data available	Octanol/Water Partition coefficient	No data available
Coefficient of water/oil distribution	No data available	Bioaccumulation Factor	No data available
Bioconcentration Factor	No data available	Biochemical Oxygen Demand BOD/BOD5	No data available
Chemical Oxygen Demand	No data available	Persistence	No data available
Degradation	No data available		

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Excess heat.

10.5 Incompatible materials

- None known.

10.6 Hazardous decomposition products

- No decomposition is expected under normal storage and use conditions. Hazardous decomposition products formed under fire conditions - carbon oxides, nitrogen oxides.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Component Name	CAS	Data
Diethylene glycol monobutyl ether (5% TO 7%)	112-34-5	Acute Toxicity: orl-rat LD50:5660 mg/kg; skn-rbt LD50:2700 mg/kg; Irritation: eye-rbt 20 mg SEV
Acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt (3% TO 5%)	64-02-8	Acute Toxicity: orl-rat LD50:10 gm/kg; Irritation: eye-rbt 100 mg/24H MOD; skn-rbt 500 mg/24H MOD
GHS Properties	Classification	
Skin corrosion/Irritation	UN GHS•Skin Irritation 2 OSHA HCS 2012•Skin Irritation 2 WHMIS 2015•Skin Irritation 2	
Skin sensitization	UN GHS •Skin Sensitizer 1 OSHA HCS 2012•Skin Sensitizer 1 WHMIS 201•Skin Sensitizer 1	
Serious eye damage/Irritation	UN GHS •Serious Eye Damage 1 OSHA HCS 2012•Serious Eye Damage 1 WHMIS 201•Serious Eye Damage 1	

Potential Health Effects

Inhalation

Acute (Immediate)

- May cause irritation.

Chronic (Delayed)

- Repeated and prolonged exposure may cause irritation.

Skin

Acute (Immediate)

- Causes skin irritation. May cause an allergic skin reaction.

Chronic (Delayed)

- Repeated and prolonged exposure may be harmful.

Eye

Acute (Immediate)

- Causes serious eye damage.

Chronic (Delayed)

- Repeated and prolonged exposure may be harmful.

Ingestion

Acute (Immediate)

- May cause irritation.

Chronic (Delayed)

- No specific information available.

Section 12 - Ecological Information

12.1 Toxicity

Component	CAS	Data	Comments
Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched (15% TO 20%)	68412-54-4	Fish: 96 Hour(s) LC50 Fish 7.9 mg/L	
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (R) (13% TO 16%)	5989-27-5	Crustacea: 48 Hour(s) EC50 Crustacea 69.6 mg/L ; Fish: 96 Hour(s) LC50 Fish .702 mg/L	

12.2 Persistence and degradability

- No data available.

12.3 Bioaccumulative potential

- No data available.

12.4 Mobility in Soil

- No data available.

12.5 Results of PBT and vPvB assessment

- No data available

12.6 Other adverse effects

Section 13 - Disposal Considerations

13.1 Waste treatment methods

- Product waste** • Dispose of content in accordance with local, regional, national, and/or international regulations.
- Packaging waste** • Dispose of container in accordance with local, regional, national, and/or international regulations.

13.2 Other Information

- Dispose of wastes in an approved waste disposal facility.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	3082	Environmentally hazardous substance, liquid, n.o.s. (1-methyl-4-(1-methylethenyl)cyclohexene mixture)	9	III	NDA

14.6 Special precautions for user • None specified.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • Not relevant.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute

Inventory (Con't.)		
Component	CAS	TSCA
Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched	68412-54-4	Yes
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (R)	5989-27-5	Yes
Diethylene glycol monobutyl ether	112-34-5	Yes
Ethoxylated octylphenol, branched	68987-90-6	Yes
Acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt	64-02-8	Yes

United States

Environment

U.S. - EPA - Designated Generic Categories - Certain Glycol Ethers

- Ethoxylated octylphenol, branched 68987-90-6 5% TO 7% Not Listed
- Acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt 64-02-8 3% TO 5% Not Listed
- Diethylene glycol monobutyl ether 112-34-5 5% TO 7%

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage
H411 - Toxic to aquatic life with long lasting effects
P261 - Avoid breathing dust, fume, gas, mist, vapors and/or spray.
P264 - Wash thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
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 CENTER or doctor/physician.
P321 - Specific treatment, see supplemental first aid information.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362 - Take off contaminated clothing and wash before reuse.
P391 - Collect spillage.
P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

- Classification method for mixtures** • Calculation method.
- Last Revision Date** • 22 June 2015
- Preparation Date** • 29 March 2019
- Other Information** • Approved by: Troy Bergstedt, Director of Chemical Research, (218) 628-2217 ext.142.
- Disclaimer/Statement of Liability** • The information contained herein is based on data available to us and is believed to be correct. Since this information may have been obtained in part from independent laboratories or other sources not under direct supervision, no representation is made that the information is accurate, reliable, complete, or representative and Buyer may rely thereon only at the Buyer's risk. We make no guarantee that the health and safety precautions we have suggested will be adequate for all individuals and / or situations involving its handling and uses. No warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet.
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