



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

1.1 Product identifier

Product Name • **Chroma/Block Out 750**

Product Description • Red liquid.

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

Relevant identified use(s) • Liquid blockout

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

EU/EEC

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]
According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP • Not classified

DSD/DPD • Not classified

2.2 Label Elements

CLP

Hazard statements • Not classified

Precautionary statements

Prevention • P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response • P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position 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.

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

DSD/DPD

Safety phrases • S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

2.3 Other Hazards

CLP • No data available

DSD/DPD • No data available

UN GHS

According to Third Revised Edition

2.1 Classification of the substance or mixture

UN GHS • Not classified

2.2 Label elements

UN GHS

Hazard statements • Not classified

Precautionary statements

Prevention • P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response • P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position 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.

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 • Not classified

2.2 Label elements

OSHA HCS 2012

Precautionary statements

Prevention • Wear protective gloves/protective clothing/eye protection/face protection. - P280

Response • IF ON SKIN: Wash with plenty of soap and water. - P302+P352
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P341
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338

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

2.1 Classification of the substance or mixture

WHMIS • Not classified

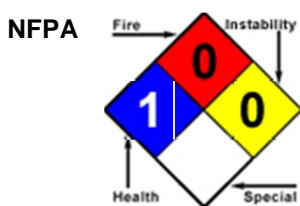
2.2 Label elements

WHMIS • Not classified

2.3 Other hazards

WHMIS • No data available

2.4 Other information



Section 3 - Composition/Information on Ingredients

3.1 Substances

3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Polyethylene glycol nonylphenyl ether	CAS:9016-45-9	0.2%	Ingestion/Oral-Rat LD50 • 4 g/kg Skin-Rabbit LD50 • 2 mL/kg	WHMIS: Other Toxic Effects - D2B UN GHS: Acute Tox. Oral 4; Eye Irrit. 2A; Skin Irrit. 2 EU DSD/DPD: Harmful(Xn); Irritant(Xi); R22; R36/38 EU CLP: OSHA HCS 2012:	NDA

European Chemicals Agency – Candidate List of Substances of Very High Concern for Authorization

- Polyethylene glycol nonylphenyl ether, CAS #9016-45-9; (4-Nonylphenol, branched and linear, ethoxylated); listed 2013/06/20; <0.2%.

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.
- Eye**
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/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 • Material may burn, but does not ignite readily.

Hazardous Combustion Products • Products of combustion include: carbon oxides (COx).

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.

Emergency Procedures • No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended. Use normal clean up procedures.

6.2 Environmental precautions

- No data available

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**
- Keep container closed when not in use. Store away from extreme heat. Do not freeze. 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

Pictograms



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

- Eye/Face**
- Wear protective eyewear (goggles, face shield, or safety glasses).

- 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. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

- 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	Viscous liquid.
Color	Red	Odor	Mild
Odor Threshold	No data available	Physical and Chemical Properties	Not relevant
General Properties			
Boiling Point	100 C(212 F)	Melting Point	No data available
Decomposition Temperature	No data available	pH	No data available
Density	8.8 lbs/gal	Water Solubility	Miscible
Viscosity	14000 Centipoise (cPs, cP) or mPas	Explosive Properties	Not relevant
Oxidizing Properties:	Not relevant		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	VOG (Wt.)	0 %
Volatiles (Wt.)	75 %		
Flammability			
Flash Point	> 200 F(> 93.3333 C)	UEL	Not relevant
LEL	Not relevant	Autoignition	Not relevant
Flammability (solid, gas)	Not relevant		
Environmental			
Half-Life	No data available	Octanol/Water Partition coefficient	No data available
Coefficient of water/oil	No data available	Bioaccumulation Factor	No data available

distribution			
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 data available

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Excess heat. Avoid freezing.

10.5 Incompatible materials

- Strong oxidizing agents.

10.6 Hazardous decomposition products

- Hazardous decomposition products formed under fire conditions - carbon oxides (COx). No decomposition is expected under normal storage and use conditions.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Component Name	CAS	Data
Polyethylene glycol nonylphenyl ether (0.2%)	9016-45-9	Acute Toxicity: ori-rat LD50:4 gm/kg; skn-rbt LD50:2 mL/kg; Irritation: eye-rbt 5 mg SEV; skn-rbt 500 mg open MLD
GHS Properties	Classification	
Acute toxicity	EU/CLP• OSHA HCS 2012• UN GHS•	
Aspiration Hazard	EU/CLP• OSHA HCS 2012• UN GHS•	
Carcinogenicity	EU/CLP• OSHA HCS 2012• UN GHS•	
Germ Cell Mutagenicity	EU/CLP• OSHA HCS 2012• UN GHS•	
Skin corrosion/Irritation	EU/CLP• OSHA HCS 2012• UN GHS•	
Skin sensitization	EU/CLP• OSHA HCS 2012• UN GHS•	
STOT-RE	EU/CLP•	

	OSHA HCS 2012• UN GHS•
STOT-SE	EU/CLP• OSHA HCS 2012• UN GHS•
Toxicity for Reproduction	EU/CLP• OSHA HCS 2012• UN GHS•
Respiratory sensitization	EU/CLP• OSHA HCS 2012• UN GHS•
Serious eye damage/Irritation	EU/CLP• OSHA HCS 2012• UN GHS•

Potential Health Effects

Inhalation

Acute (Immediate)

- May cause mild irritation.

Chronic (Delayed)

- Repeated and prolonged exposure may cause irritation.

Skin

Acute (Immediate)

- May cause mild irritation.

Chronic (Delayed)

- Repeated and prolonged exposure may cause irritation.

Eye

Acute (Immediate)

- May cause irritation.

Chronic (Delayed)

- Repeated and prolonged exposure may cause irritation.

Ingestion

Acute (Immediate)

- Under normal conditions of use, no health effects are expected.

Chronic (Delayed)

- No specific information available.

Section 12 - Ecological Information

12.1 Toxicity

- No data available

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	NDA	NDA	NDA	NDA	NDA
IMO/IMDG	NDA	NDA	NDA	NDA	NDA
IATA/ICAO	NDA	NDA	NDA	NDA	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.

14.8 Other information

- DOT • Not regulated.
 IMO/IMDG • Not regulated.
 IATA/ICAO • Not regulated.

Section 15 - Regulatory Information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

SARA Hazard Classifications • Not classified

Inventory						
Component	CAS	Australia AICS	Canada DSL	China	Japan ENCS	Korea KECL
Polyethylene glycol nonylphenyl ether	9016-45-9	Yes	Yes	Yes	Yes	Yes
Inventory (Con't.)						
Component	CAS	New Zealand	Philippines PICCS	TSCA		
Polyethylene glycol nonylphenyl ether	9016-45-9	Yes	Yes	Yes		

Australia**Labor**

Australia - High Volume Industrial Chemicals List
 •Polyethylene glycol nonylphenyl ether

9016-45-9

Environment

Australia - Priority Existing Chemical Program
 •Polyethylene glycol nonylphenyl ether

9016-45-9 Candidate chemical

Canada**Labor**

Canada - WHMIS - Classifications of Substances
 •Polyethylene glycol nonylphenyl ether

9016-45-9 D2B

Environment

Canada - CEPA - Priority Substances List

•Polyethylene glycol nonylphenyl ether

9016-45-9 Priority Substance List 2 (substance considered toxic)

Canada - CEPA - Schedule I - List of Toxic Substances

•Polyethylene glycol nonylphenyl ether	9016-45-9	
Canada - Council of Ministers of the Environment - Water Quality Guidelines for Freshwater Aquatic Life		
•Polyethylene glycol nonylphenyl ether	9016-45-9	1.0 µg/L (expressed on a TEQ basis using NP TEFs)
Canada - Council of Ministers of the Environment - Water Quality Guidelines for Marine Aquatic Life		
•Polyethylene glycol nonylphenyl ether	9016-45-9	0.7 µg/L (expressed on a TEQ basis using NP TEFs)

Denmark

Environment

Denmark - List of Undesirable Substances - Product Groups/Function

•Polyethylene glycol nonylphenyl ether	9016-45-9	Surfactants that are used in paint and coating curing agents and glue
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Denmark - List of Undesirable Substances - Reason for Selection

•Polyethylene glycol nonylphenyl ether	9016-45-9	Some substances have problematical properties according to the List of Dangerous Substances; Nonylphenol, Octylphenol and Nonylphenols ethoxylate are on the EU priority list of substances that should be further investigated for hormone-disturbing properties; N, R50/53 and one compound that also has R43; The substances are only partially limited in use but other uses are also considered to be environmentally objectionable
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Europe

Other

EU - Endocrine Disrupters (COM (2001)262) - Candidate List of Substances

•Polyethylene glycol nonylphenyl ether	9016-45-9	Group III Chemical
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EU - Export and Import Restrictions (689/2008) - Chemicals Qualifying for PIC Notification

•Polyethylene glycol nonylphenyl ether	9016-45-9	Banned as a pesticide; Severe restriction as an industrial chemical
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EU - Export and Import Restrictions (689/2008) - Chemicals Subject to Export Notification Procedure

•Polyethylene glycol nonylphenyl ether	9016-45-9	Severe restriction as an industrial chemical for professional use; Banned as a pesticide in the group of plant protection products; Banned as other pesticide including biocides
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EU - No-Longer Polymers List (67/548/EEC)

•Polyethylene glycol nonylphenyl ether	9016-45-9	NLP No. 500-024-6
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Germany

Environment

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

•Polyethylene glycol nonylphenyl ether	9016-45-9	ID Number 671, hazard class 2 - hazard to waters
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Japan

Other

Japan - Chemical Substance Control Law (CSCL) - Examined Existing Chemical Substances

•Polyethylene glycol nonylphenyl ether	9016-45-9	Non-biodegradable/Low bioconcentration
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Korea

Other

Korea - MOE - Toxic Chemicals Control Act (TCCA) - Restricted Chemicals

•Polyethylene glycol nonylphenyl ether

9016-45-9

06-5-6, 0.1% or more in mixtures (prohibited from manufacturing, importing or using for home cleaning solutions, inks and paint)

Taiwan

Environment

Taiwan - Toxic Chemical Substances Control Act - Threshold Regulated Quantities

•Polyethylene glycol nonylphenyl ether

9016-45-9

50 kg TRQ

Taiwan - Toxic Chemical Substances Control Act - Classification and Control Levels

•Polyethylene glycol nonylphenyl ether

9016-45-9

Class 1 Cutoff: 10 wt%

Thailand

Other

Thailand - Hazardous Substances

•Polyethylene glycol nonylphenyl ether

9016-45-9

Type 3 Hazardous Substance

15.2 Chemical Safety Assessment

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

15.3 Other Information

- California Proposition 65: This product contains or may contain a substance(s) known to the State of California to cause cancer and/or reproductive toxicity.

Section 16 - Other Information

Relevant Phrases (code & full text)

- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
- P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position 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.
- P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- R22 - Harmful if swallowed.
- R36/38 - Irritating to eyes and skin.
- S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Classification method for mixtures

- Calculation method.

Last Revision Date

- 02 February 2005

Preparation Date

- 28 April 2014

Other Information

- Approved by: Troy Bergstedt, Director of Chemical Research, (218) 628-2217 ext.142.

Disclaimer/Statement of Liability

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