

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Identification

Product form : Aerosol  
Product name : GLO-3 Goodson Glow Developer  
Product code : Not available

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

Non-destructive testing

#### 1.3. Details of the supplier of the safety data sheet

Distributor : Goodson Manufacturing Company  
156 Galewski Drive  
Winona, MN 55987-0847 - USA  
T 507-452-1830

#### 1.4. Emergency telephone number

Emergency number : 800-924-6804 (24 HOUR)

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

Classification (OSHA Hazcom 2012)

Flammable Aerosol 2

Gases Under Pressure - Compressed Gas

Serious Eye Irritation 2A

Specific Target Organ Toxicity - Single Exposure 3

#### 2.2. Label elements

Hazard pictograms



Signal word

: Warning

Hazard statements

: Flammable aerosol  
Contains gas under pressure; may explode if heated  
Causes serious eye irritation  
May cause drowsiness or dizziness

Prevention

: Keep away from heat/sparks/open flames/hot surfaces.  
No smoking.  
Do not spray on an open flame or other ignition source.  
Pressurized container; do not pierce or burn, even after use.  
Wash hands thoroughly after handling.  
Wear eye protection / face protection.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Use only outdoors or in a well-ventilated area.

Response

: 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.  
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.

Storage

: Protect from sunlight.  
Do not expose to temperatures exceeding 50°C/122°F.  
Store in a well-ventilated place.  
Store locked up.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

## 2.3. Other hazards

Hazards not otherwise classified : Not applicable  
7% of the mixture consists of ingredient(s) of unknown acute toxicity.  
This product is a hazardous chemical as defined by NOM-018-STPS-2000.

## SECTION 3: Composition/information on ingredients

### 3.1. Mixtures

Ingredient	UN#	H/F/R/*	Product identifier	WT. %
Acetone	UN1090	1/3/0	(CAS No) 67-64-1	30 - 60
Isopropanol	UN1219	1/3/0	(CAS No) 67-63-0	10 - 30
Pentaerythritol	Not Available	1/2/0	(CAS No) 115-77-5	10 - 30
Carbon Dioxide	UN1013	1/0/0	(CAS No) 124-38-9	5 - 10

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

\* Per NOM-018-STPS-2000

## SECTION 4: First Aid Measures

### 4.1. Description of first aid measures

Eye : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if present. If irritation persists, get medical attention.

Skin : In case of contact, immediately flush skin with plenty of water. Call a physician if irritation develops and persists.

Inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

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

Eye : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Skin : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

Inhalation : May cause drowsiness or dizziness. May cause respiratory tract irritation.

Ingestion : May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

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

Note to Physicians : Symptoms may not appear immediately.

Specific Treatments : In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

## SECTION 5: Firefighting measures

### 5.1. Flammability

Flammability : Flammable by WHMIS/OSHA/NOP-018-STPS-2000 criteria

### 5.2. Extinguishing media

Suitable extinguishing media : Carbon dioxide, dry chemical, foam, water fog.

Unsuitable extinguishing media : Not available.

### 5.3. Special hazards arising from the substance or mixture

Products of Combustion : May include, and are not limited to: oxides of carbon.

Explosion Data

Sensitivity to Mechanical Impact : Not available.

Sensitivity to Static Discharge : Not available.

## 5.4. Special Protective Equipment & Precautions for Firefighters

Keep upwind of fire. Wear full firefighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Use water spray to keep fire-exposed containers cool. Containers may explode if heated.

## SECTION 6: Accidental release measures

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

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.

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

- Methods for Containment : Contain spill, then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
- Methods for Cleaning-Up : Scoop up material and place in a disposal container. Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Provide ventilation.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Handling : Keep away from sources of ignition. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Container may explode if heated. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Use only outdoors or in a well-ventilated area. When using do not eat, drink or smoke. (See section 8)
- General Hygiene Advice : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

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

- Storage : Keep out of the reach of children. Protect from sunlight. Do not store at temperatures above 50°C / 122°F. Store in a well-ventilated place. Store locked up. Keep container dry. (See section 10)

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Occupational Exposure Guidelines		
Ingredient	OSHA-PEL	ACGIH-TLV
Acetone	1000 ppm; 2400 mg/m <sup>3</sup>	500 ppm
Isopropanol	400 ppm	200 ppm
Pentaerythritol	15 mg/m <sup>3</sup> (total); 5 mg/m <sup>3</sup> (resp)	10 mg/m <sup>3</sup> (total); 5 mg/m <sup>3</sup> (resp)
Carbon Dioxide	5000 ppm	5000 ppm

### 8.2. Exposure controls

- Engineering Controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

### 8.3. Individual Protective Measures

- Eye/Face Protection : Safety glasses or goggles are recommended when using this product.
- Hand Protection : Wear chemical resistant gloves.
- Body protection : Wear suitable protective clothing.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- General Health & Safety Measures : Handle according to established industrial hygiene and safety practices. Ensure that eyewash stations and safety showers are close to the workstation location.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	: Clear.
Color	: Colorless.
Odor	: Characteristic.
Odor Threshold	: Not available.
Physical State	: Gas/Pressurized Liquid.
pH	: Not available.
Melting Point/Freezing Point	: Not available.
Initial Boiling Point and Boiling Range	: 56°C (133°F) at 100kPa
Flash Point	: Not applicable.
Evaporation Rate	: Not available.
Flammability	: Flammable.
Lower Flammability/Explosive Limit	: 2.0% (IPA)
Upper Flammability/Explosive Limit	: 12.8% (acetone)
Vapor Pressure	: Not available.
Vapor Density	: > 1
Relative Density/Specific Gravity	: ~ 0.8
Solubility	: Soluble.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition Temperature	: Not available.
Decomposition Temperature	: Not available.
Viscosity	: Not available.
Oxidizing Properties	: Not available.
Explosive Properties	: Not available.
VOC content, wt. %	: ~ 80%

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2. Chemical stability

Stable under normal conditions. Contents under pressure. Container may explode if heated. Do not pierce or burn, even after use.

### 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

### 10.4. Conditions to avoid

Heat. Incompatible materials. Sources of ignition.

### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

### 10.6. Hazardous decomposition products

May include and are not limited to oxides of carbon.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely Routes of Exposure	: Skin contact, eye contact, inhalation and ingestion.
Eyes	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production with marked redness and swelling of the conjunctiva.
Skin	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Ingestion	: May be harmful if swallowed. May cause stomach distress; nausea or vomiting.
Inhalation	: May cause drowsiness or dizziness. May cause respiratory tract irritation.

Acute toxicity			
Ingredient	IDLH	LC50	LD50
Acetone	2500 ppm	Inhalation 50100 mg/m <sup>3</sup> 8h, rat	Oral 5800 mg/kg, rat
Isopropanol	2000 ppm	Inhalation 72.6 mg/L 4h, rat	Oral 4396 mg/kg, rat Dermal 12800 mg/kg, rat Dermal 12870 mg/kg, rabbit
Pentaerythritol	Not available	Not available	Oral 10000 mg/kg; rat
Carbon Dioxide	40000 ppm	Not available	Not available

Calculated Overall Chemical Acute Toxicity Values		
LC50 (inhalation)	LD50 (oral)	LD50 (dermal)
> 5 mg/L 4h, rat	> 2000 mg/kg, rat	> 2000 mg/kg, rabbit

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen (NTP, IARC, OSHA, AGHH, CP65)*
Acetone	G-A4
Isopropanol	G-4A, I-3
Pentaerythritol	Not listed
Carbon Dioxide	Not listed

\*See section 15 for more information.

### 11.2. Delayed, Immediate and Chronic Effects of Short- and Long-Term Exposure

Skin corrosion/irritation	: Based on available data, the classification criteria are not met.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory Sensitization	: Based on available data, the classification criteria are not met.
Skin Sensitization	: Based on available data, the classification criteria are not met.
STOT-Single Exposure	: May cause drowsiness or dizziness.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Germ Cell Mutagenicity	: Based on available data, the classification criteria are not met.
Reproductive Toxicity - Developmental	: Based on available data, the classification criteria are not met.
Reproductive Toxicity - Teratogenicity	: Based on available data, the classification criteria are not met.
Reproductive Toxicity - Embryotoxicity	: Based on available data, the classification criteria are not met.
Reproductive Toxicity - Fertility	: Based on available data, the classification criteria are not met.
STOT-Repeated Exposure	: Based on available data, the classification criteria are not met.
Aspiration Hazard	: Based on available data, the classification criteria are not met.
Toxicologically Synergistic Materials	: Not available.
Other Information	: Not available.

## SECTION 12: Ecological information

### 12.1. Ecotoxicity

Acute/Chronic Toxicity	: May cause long-term adverse effects in the aquatic environment.
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### 12.2. Persistence and degradability

Not available.

### 12.3. Bioaccumulative potential

Bioaccumulation	: Not available
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### 12.4. Mobility in soil

Not available.

### 12.5. Other adverse effects

Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Disposal Method : This material must be disposed of in accordance with all local, state, provincial and federal regulations.

Other Disposal Recommendations : Not available.

## SECTION 14: Transport information

DOT GROUND	Consumables, Limited Quantity
IATA	UN 1950, Aerosols, Flammable, 2.1
IMDG	UN 1950, Aerosols, 2.1 (Limited Quantity)
TDG	UN 1950, Aerosols, Flammable, 2.1
NOM-004-SCT2-1994	UN 1950, Aerosols, Flammable, 2.1

## SECTION 15: Regulatory information

### 15.1. Safety, Health & Environmental Regulations / Legislations Specific for the Chemical

Canada : This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

US : SDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200). HazCom 2012

MEXICO : SDS prepared pursuant to NOM-018-STPS-2000.

#### SARA Title III

Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Acetone	Not listed	Not listed	5,000	Not listed
Isopropanol	Not listed	Not listed	Not listed	313
Pentaerythritol	Not listed	Not listed	Not listed	Not listed
Carbon Dioxide	Not listed	Not listed	Not listed	Not listed

### 15.2. US State regulations

California Proposition 65 : This product does **not** contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

Global Inventories :

Ingredient	Canada DSL/NDSL	USA TSCA
Acetone	DSL	Yes
Isopropanol	DSL	Yes
Pentaerythritol	NDSL	Yes
Carbon Dioxide	DSL	Yes

#### NFPA - National Fire Protection Association:

Health	2
Fire	4
Reactivity	0

#### HMIS - Hazardous Materials Identification System:

Health	2
Fire	4
Reactivity	0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

### SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

CP65	: California Proposition 65
OSHA (O)	: Occupational Safety and Health Administration.
ACGIH (G)	: American Conference of Governmental Industrial Hygienists. A1 - Confirmed human carcinogen. A2 - Suspected human carcinogen. A3 - Animal carcinogen. A4 - Not classifiable as a human carcinogen. A5 - Not suspected as a human carcinogen.
IARC (I)	: International Agency for Research on Cancer. 1 - The agent (mixture) is carcinogenic to humans. 2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals. 2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals. 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans. 4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.
NTP (N)	: National Toxicology Program. 1 - Known to be carcinogens. 2 - Reasonably anticipated to be carcinogens.

### SECTION 16: Other information

Date of Preparation	: April 1, 2014
Expiry Date	: April 1, 2017
Version	: 1.2
Revision Date	: November 11, 2015

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