



Safety Data Sheet acc. to OSHA HCS


Printing date 12/17/2015

Reviewed on 12/07/2015

1: Identification

- **1.1 Product identifier**
 - **Trade name:** Met-L-Glo 1400B spraycan
 - **Application of the substance / the mixture**
Fluorescent magnetic particle inspection bath per AMS-3045/ASTM E-1444
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Met-L-Chek Company
1639 Euclid Street
Santa Monica, California, 90404, U.S.A.
Phone: 1-310-450-1111
Fax: 1-310-452-4046
E-mail: info@met-l-chek.com
http://www.met-l-chek.com
- **Information department:** Product safety department
- **1.4 Emergency telephone number:** Chemtrec +1-800-424-9300 in U.S.A.; outside U.S.A. 001-703-527-3887

2: Hazard(s) identification

- **2.1 Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008**
The product is not classified according to the CLP regulation.
- **2.2 Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008** not applicable
 - **Hazard pictograms** not applicable
 - **Signal word** not applicable
 - **Hazard statements** not applicable
 - **Classification system:**
 - **NFPA ratings (scale 0 - 4)**
 Health = 0
Fire = 0
Reactivity = 1
- **HMIS-ratings (scale 0 - 4)**

HEALTH	0
FIRE	0
REACTIVITY	1

 Health = 0
Fire = 0
Reactivity = 1
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3: Composition/information on ingredients

- **3.2 Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

(Contd. on page 2)

**Safety Data Sheet**
acc. to OSHA HCS

Printing date 12/17/2015

Reviewed on 12/07/2015

Trade name: Met-L-Glo 1400B spraycan

(Contd. of page 1)

• Dangerous components:

CAS: 64742-47-8 EC number: 926-141-6	Distillates (petroleum), hydrotreated light Asp. Tox. 1, H304; Flam. Liq. 4, H227	50-100%
CAS: 124-38-9 EINECS: 204-696-9	carbon dioxide Press. Gas, H280	1-10%

4: First-aid measures**• 4.1 Description of first aid measures****• General information:** No special measures required.**• After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

Take affected persons into fresh air and keep quiet.

• After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

• After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.**• After swallowing:**

Do not induce vomiting; immediately call for medical help.

A person vomiting while lying on their back should be turned onto their side.

• 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

• 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5: Fire-fighting measures**• 5.1 Extinguishing media****• Suitable extinguishing agents:**

Water haze

Foam

ABC powder

• For safety reasons unsuitable extinguishing agents: Water spray**• 5.2 Special hazards arising from the substance or mixture** Carbon monoxide and carbon dioxide**• 5.3 Advice for firefighters****• Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

6: Accidental release measures**• 6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

• 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

(Contd. on page 3)

US



Safety Data Sheet acc. to OSHA HCS

Printing date 12/17/2015

Reviewed on 12/07/2015

Trade name: Met-L-Glo 1400B spraycan

(Contd. of page 2)

6.3 Methods and material for containment and cleaning up:

Collect liquid in an appropriate container or absorb with an inert material such as vermiculite, dry sand, or earth;
DO NOT use combustible materials.
Place in a chemical waste container.

6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7: Handling and storage

- 7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- Information about protection against explosions and fires:**
Do not spray on a naked flame or any incandescent material.
Use explosion-proof apparatus / fittings and spark-proof tools.
Containers may be hazardous when empty since residue liquid and vapors may be present
- 7.2 Conditions for safe storage, including any incompatibilities**
- Storage:**
- Requirements to be met by storerooms and receptacles:**
Observe official regulations on storing packagings with pressurized containers.
- Information about storage in one common storage facility:** Not required.
- Further information about storage conditions:** None.
- 7.3 Specific end use(s)** No further relevant information available.

8: Exposure controls/personal protection

- Additional information about design of technical systems:** No further data; see item 7.
- 8.1 Control parameters**

Components with limit values that require monitoring at the workplace:**124-38-9 carbon dioxide**

PEL	Long-term value: 9000 mg/m ³ , 5000 ppm
REL	Short-term value: 54,000 mg/m ³ , 30,000 ppm Long-term value: 9000 mg/m ³ , 5000 ppm
TLV	Short-term value: 54,000 mg/m ³ , 30,000 ppm Long-term value: 9000 mg/m ³ , 5000 ppm

- Additional information:** The lists that were valid during the creation were used as basis.
- 8.2 Exposure controls**
- Personal protective equipment:**
- General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
- Breathing equipment:**



Ventilation System: A system of local or general exhaust is recommended to keep employee exposure below the airborne exposure limits. If exposure limit is exceeded use organic vapor respirator (type A), or self contained breathing apparatus. For dry powder nuisance exposure use type P96(US) or type Pi(EU EN143 particle respirator. For higher level protection use type OV/AG/P99(US or ABEK-P2(EU EN 143) respirator cartridges.

(Contd. on page 4)

US

**Safety Data Sheet**
acc. to OSHA HCS

Printing date 12/17/2015

Reviewed on 12/07/2015

Trade name: Met-L-Glo 1400B spraycan

(Contd. of page 3)

• **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:**

Safety glasses

• **Body protection:** Use protective suit.**9: Physical and chemical properties**• **9.1 Information on basic physical and chemical properties**• **General Information**• **Appearance:**

Form:	Aerosol
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.

• **pH-value:** Not determined.• **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Not applicable, as aerosol.
Flash point:	< -50 °C (< -58 °F) (ASTM D-93)

• **Flammability (solid, gaseous):** Not applicable.• **Ignition temperature:** 210 °C (410 °F)• **Decomposition temperature:** Not determined.• **Auto igniting:** Product is not selfigniting.• **Danger of explosion:** Product does not present an explosion hazard.• **Explosion limits:**

Lower:	0.6 Vol %
Upper:	7.0 Vol %

• **Vapor pressure at 20 °C (68 °F):** 0.3 hPa

(Contd. on page 5)

US

**Safety Data Sheet**
acc. to OSHA HCS

Printing date 12/17/2015

Reviewed on 12/07/2015

Trade name: Met-L-Glo 1400B spraycan

(Contd. of page 4)

• Density:	Not determined.
• Relative density	Not determined.
• Vapor density	Not determined.
• Evaporation rate	Not applicable.
• Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
• Partition coefficient (n-octanol/water):	Not determined.
• Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
• Solvent content:	
Organic solvents:	96.9 %
VOC content:	0.0 g/l / 0.00 lb/gl
• 9.2 Other information	No further relevant information available.

10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Avoid contact with acetaldehyde, acids, chlorine, ethylene oxide, isocyanate and strong oxidizing agents
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **on the skin:** Based on available data, the classification criteria are not met.
- **on the eye:** Based on available data, the classification criteria are not met.
- **Sensitization:** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **Carcinogenic categories**

• **IARC (International Agency for Research on Cancer)**

Group 1	Carcinogenic to humans
Group 2A	Probably carcinogenic to humans
Group 2B	Possibly carcinogenic to humans
Group 3	Not classifiable as to its carcinogenicity to humans
Group 4	Probably not carcinogenic to humans

• **NTP (National Toxicology Program)**

None of the ingredients is listed.

(Contd. on page 6)

**Safety Data Sheet**
acc. to OSHA HCS

Printing date 12/17/2015

Reviewed on 12/07/2015

Trade name: Met-L-Glo 1400B spraycan

(Contd. of page 5)

• OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** Information on hazardous ingredients
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**
Smaller quantities can be disposed of with household waste.
Waste/ unused products
Collect all waste in suitable and labelled containers and dispose according to local legislation.
- **Uncleaned packagings:**
- **Recommendation:**
Waste / used products
Waste products and empty packages dispose of in accordance with local regulations.
Empty containers may contain flammable residue and vapors.

14: Transport information

- | | |
|---------------------------------------|-------------------------|
| • 14.1 UN-Number | |
| • DOT, ADR, IMDG, IATA | UN1950 |
| • 14.2 UN proper shipping name | |
| • DOT, IATA | Aerosols, non-flammable |
| • ADR | 1950 Aerosols |
| • IMDG | AEROSOLS |

(Contd. on page 7)

US

**Safety Data Sheet**
acc. to OSHA HCS

Printing date 12/17/2015

Reviewed on 12/07/2015

Trade name: Met-L-Glo 1400B spraycan

(Contd. of page 6)

· **14.3 Transport hazard class(es)**· **DOT**

- **Class** 2.2
- **Label** 2.2

· **ADR**

- **Class** 2 5A Gases
- **Label** 2.2

· **IMDG, IATA**

- **Class** 2.2
- **Label** 2.2

· **14.4 Packing group**

- **DOT, ADR, IMDG, IATA** not applicable

· **14.5 Environmental hazards:**

- **Marine pollutant:** No

· **14.6 Special precautions for user**· **Danger code (Kemler):**· **EMS Number:**· **Stowage Code**

Warning: Gases

-

F-D,S-U

SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre:

Category A. For AEROSOLS with a capacity above 1 litre:

Category B. For WASTE AEROSOLS: Category C, Clear

of living quarters.

· **Segregation Code**

SG69 For AEROSOLS with a maximum capacity of 1 litre:

Segregation as for class 9. Stow "separated from" class 1

except for division 1.4. For AEROSOLS with a capacity

above 1 litre: Segregation as for the appropriate

subdivision of class 2. For WASTE AEROSOLS:

Segregation as for the appropriate subdivision of class 2.

· **14.7 Transport in bulk according to Annex II of
MARPOL73/78 and the IBC Code**

Not applicable.

(Contd. on page 8)

US

**Safety Data Sheet**
acc. to OSHA HCS

Printing date 12/17/2015

Reviewed on 12/07/2015

Trade name: Met-L-Glo 1400B spraycan

(Contd. of page 7)

• **Transport/Additional information:**• **DOT**• **Quantity limitations**

On passenger aircraft/rail: 75 kg



On cargo aircraft only: 150 kg

• **ADR**• **Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

• **Remarks:**

Aerosols can be transported under LIMITED QUANTITIES (LQ).

See ADR 3.4 - LQ2. That means no label 2.

• **IMDG**• **Limited quantities (LQ)**

1L

• **Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

• **Remarks:**

Aerosols can be transported under LIMITED QUANTITIES (LQ).

See IMDG 3.4 - LQ2. That means no label 2.

• **IATA**• **Remarks:**

Quantity Limitation - Passenger Aircraft

75 kg

Quantity Limitation - Cargo Aircraft

150 kg

Quantity Limitation - Limited quantities

30 kg G

Packaging Instruction:

Passenger Aircraft - PI 203

Cargo aircraft - PI 203

Limited quantities - PI Y203

• **UN "Model Regulation":**

UN 1950 AEROSOLS, 2.2

15: Regulatory information• **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**• **Sara**• **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

• **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

(Contd. on page 9)

US

**Safety Data Sheet**
acc. to OSHA HCS

Printing date 12/17/2015

Reviewed on 12/07/2015

Trade name: Met-L-Glo 1400B spraycan

(Contd. of page 8)

• TSCA (Toxic Substances Control Act):

All ingredients are listed.

• Proposition 65**• Chemicals known to cause cancer:**

None of the ingredients is listed.

• Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

• Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

• Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

• Cancerogenity categories**• EPA (Environmental Protection Agency)**

None of the ingredients is listed.

• TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

• NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• Relevant phrases

H227 Combustible liquid.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

• Department issuing SDS: Product safety department**• Contact:** Met-L-Chek Company**• Date of preparation / last revision** 12/17/2015 / -**• Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

(Contd. on page 10)



Safety Data Sheet
acc. to OSHA HCS

Printing date 12/17/2015

Reviewed on 12/07/2015

Trade name: Met-L-Glo 1400B spraycan

(Contd. of page 9)

PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Press. Gas: Gases under pressure: Liquefied gas
Flam. Liq. 4: Flammable liquids, Hazard Category 4
Asp. Tox. 1: Aspiration hazard, Hazard Category 1

• *** Data compared to the previous version altered.**

US