Safety Data Sheet

MV-740 AEROSOL

SECTION 1: IDENTIFICATION

1.1. PRODUCT IDENTIFIER

Trade name: MV-740 Aerosol

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Relevant identified uses of the substance or mixture: Non-destructive testing

Uses advised against : None known.

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company and address: **Magnaflux**
155 Harlem Ave.
60025 Glenview, IL
USA
847-657-5300
www.magnaflux.com/Magnaflux

Distributor:

E-mail: support@magnaflux.com

SDS date: 1/6/2023

SDS Version: 1.0

1.4. EMERGENCY TELEPHONE NUMBER

Contact the poison control at 1-800-222-1222 (24/7) or use the webPOISONCONTROL® (triage.webpoisoncontrol.org) to get specific guidance for your case
See also section 4 “First aid measures”.
Emergency number: CHEMTREC 800-424-9300

SECTION 2: HAZARD(S) IDENTIFICATION

OSHA/HCS STATUS

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Press. Gas (Comp.) ; H280, Contains gas under pressure; may explode if heated.

2.2. LABEL ELEMENTS

Hazard pictogram(s):

Signal word: Warning

Hazard statement(s): Contains gas under pressure; may explode if heated. (H280)

Safety statement(s):

General:	-
Prevention:	-
Response:	-
Storage:	Protect from sunlight. Store in a well-ventilated place. (P410+P403)
Disposal:	-
Additional labelling:	
	Not applicable.

2.3. OTHER HAZARDS

Additional warnings: In the event of leaks, high concentrations of gases can quickly form. They can be toxic, asphyxiating, or explosive.
This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. SUBSTANCES

Not applicable. This product is a mixture.

3.2. MIXTURES

Product/substance	Identifiers	% w/w	Classification	Note
Glycerine	CAS No.: 56-81-5	15-25%		
Carbon dioxide	CAS No.: 124-38-9	1-3%	Press. Gas (Comp.) H280	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

OTHER INFORMATION

None known.

SECTION 4: FIRST-AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

General information:	If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.
Inhalation:	Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.
Skin contact:	Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.
Eye contact:	Upon irritation of the eye: Remove contact lenses and open eyes widely. Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Seek medical assistance and continue flushing during transport.
Ingestion:	Provide plenty of water for the person to drink and stay with

	him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.
Burns:	Rinse with water until pain stops then continue to rinse for 30 minutes.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED
None known.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED
None known.

Information to medics: Bring this safety data sheet or the label from this product.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. EXTINGUISHING MEDIA
Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE
Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Carbon oxides (CO / CO2)

5.3. ADVICE FOR FIREFIGHTERS
Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES
Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

6.2. ENVIRONMENTAL PRECAUTIONS
Avoid discharge to lakes, streams, sewers, etc.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP
Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. REFERENCE TO OTHER SECTIONS
See section 13 “Disposal considerations” on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Pressurized gas packs (spray cans, aerosol cans) must be stored behind a wire mesh, which allows gases to escape and holds back packs flying around.

Recommended storage material:	Always store in containers of the same material as the original container.
Storage temperature:	No specific requirements
Incompatible materials:	Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. SPECIFIC END USE(S)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

Glycerine
Long term exposure limit (OSHA Table Z-1) (mg/m³): 15 (total dust) / 5 (Respirable fraction)
Long term exposure limit (NIOSH REL) (mg/m³): 10

Carbon dioxide
Short term exposure limit (STEL) (ACGIH TLV) (ppm): 30
Short term exposure limit (STEL) (NIOSH REL) (ppm): 30
Long term exposure limit (OSHA Table Z-1) (mg/m³): 9000
Long term exposure limit (OSHA Table Z-1) (ppm): 5000
Long term exposure limit (ACGIH TLV) (ppm): 5000

Part 1910 - Occupational Safety and Health Standards (29 CFR 1910.1000 TABLE Z-1 - Limits for Air Contaminants)

8.2. EXPOSURE CONTROLS

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations:	Smoking, drinking and consumption of food is not allowed in the work area.
Exposure scenarios:	There are no exposure scenarios implemented for this product.
Exposure limits:	Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.
Appropriate technical measures:	Adequate ventilation must be ensured for all gases. Where natural ventilation is not possible (cellar rooms), artificial ventilation must be installed. It is advantageous to store it in a lattice shed outdoors, as ventilation is no longer necessary in this case.
Hygiene measures:	In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.
Measures to avoid	No specific requirements.

environmental exposure:

8.3. INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

Generally: Use only protective equipment with a recognized certification mark, e.g. the UL mark.

Respiratory Equipment:

Type	Class	Colour	Standards	
In case of inadequate ventilation wear respiratory protection. 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.				

Skin protection:
No specific requirements.

Hand protection:
No specific requirements.

Eye protection:

Type	Standards	
Safety glasses	EN166	
Face shield	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Aerosol
Colour:	Black
Odour:	Mild
Odour threshold (ppm):	No data available
pH:	8.3
Density (g/cm³):	No data available
Relative density:	1.047
Viscosity :	No data available

PHASE CHANGES

Melting point (°F):	No data available

Boiling point (°F):	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Decomposition temperature (°F):	No data available
Evaporation rate (n-butylacetate = 100):	No data available

DATA ON FIRE AND EXPLOSION HAZARDS

Flash point (°F):	Not applicable - product is an aerosol
Ignition (°F):	No data available
Auto flammability (°F):	Not applicable - product is an aerosol
Explosion limits (% v/v):	No data available

SOLUBILITY

Solubility in water:	No data available
n-octanol/water coefficient:	No data available

9.2. OTHER INFORMATION

Solubility in fat (g/L):	No data available

SECTION 10: STABILITY AND REACTIVITY

10.1. REACTIVITY
No data available.

10.2. CHEMICAL STABILITY
The product is stable under the conditions, noted in section 7 “Handling and storage”.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS
None known.

10.4. CONDITIONS TO AVOID
None known.

10.5. INCOMPATIBLE MATERIALS
Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS
The product is not degraded when used as specified in section 1.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY

Product/substance	2,2',2''-nitrilotriethanol
Test method	OECD 401
Species	Rat, male/female
Route of exposure	Oral
Test	LD50
Result	6400 mg/kg
Other information	

Product/substance	2,2',2''-nitrilotriethanol
Test method	OECD 402
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	>2000 mg/kg
Other information	

SKIN CORROSION/IRRITATION
Based on available data, the classification criteria are not met.

SERIOUS EYE DAMAGE/IRRITATION
Based on available data, the classification criteria are not met.

RESPIRATORY SENSITISATION
Based on available data, the classification criteria are not met.

SKIN SENSITISATION
Based on available data, the classification criteria are not met.

GERM CELL MUTAGENICITY
Based on available data, the classification criteria are not met.

CARCINOGENICITY
Based on available data, the classification criteria are not met.

REPRODUCTIVE TOXICITY
Based on available data, the classification criteria are not met.

STOT-SINGLE EXPOSURE
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.

LONG TERM EFFECTS
None known.

OTHER INFORMATION
2,2'-iminodiethanol;diethanolamine has been classified by IARC as a group 2B carcinogen.
2,2',2''-nitrilotriethanol has been classified by IARC as a group 3 carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY

Product/substance	2,2',2''-nitrilotriethanol
Test method	DIN 38412
Species	Fish, Leuciscus idus
Compartment	
Duration	48 hours
Test	LC50
Result	>10000 mg/L
Other information	

Product/substance	2,2',2''-nitrilotriethanol
Test method	
Species	Daphnia, Ceriodaphnia dubia
Compartment	

Duration	48 hours
Test	EC50
Result	609.88 mg/L
Other information	

Product/substance	2,2',2''-nitrilotriethanol
Test method	DIN 38412
Species	Algae, Desmodesmus subspicatus
Compartment	
Duration	72 hours
Test	EC50
Result	512 mg/L
Other information	

Product/substance	2,2',2''-nitrilotriethanol
Test method	OECD 211
Species	Daphnia, Daphnia magna
Compartment	
Duration	21 days
Test	NOEC
Result	16 mg/L
Other information	

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
This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. OTHER ADVERSE EFFECTS
None known.

SECTION 13: DISPOSAL CONSIDERATIONS

RCRA HAZARDOUS WASTE ("P" AND "U" LIST) (40 CFR 261)
None of the components are listed

SPECIFIC LABELLING
Not applicable.

CONTAMINATED PACKING
Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information
DOT	-	Consumables, Limited Quantity		-	No	See below for additional

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information
						information.
IMDG	1950	Aerosols, Non-flammable, 2.2 (Limited Quantity)	Class: 2.2	-	No	Limited quantities: (Limited Quantity) See below for additional information.
IATA	1950	Aerosols, Non-flammable, 2.2	Class: 2.2	-	No	See below for additional information.

* Packing group

** Environmental hazards

ADDITIONAL INFORMATION

Not dangerous goods according to DOT, IATA and IMDG.

14.6. SPECIAL PRECAUTIONS FOR USER

Not applicable.

14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL AND THE IBC CODE

No data available.

SECTION 15: REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

15.2. U.S. FEDERAL REGULATIONS

TSCA:	Glycerine is listed in the non-confidential portion Carbon dioxide is listed in the non-confidential portion 2,2'-iminodiethanol;diethanolamine is listed in the non-confidential portion 2,2',2''-nitrilotriethanol is listed in the non-confidential portion
Clean Air Act:	2,2'-iminodiethanol;diethanolamine is regulated as a hazardous air pollutant (HAPS)
EPCRA Section 302:	None of the components are listed
EPCRA Section 304:	None of the components are listed
EPCRA section 313:	2,2'-iminodiethanol;diethanolamine is listed
CERCLA:	2,2'-iminodiethanol;diethanolamine is regulated with a Reportable Quantity (RQ) of: 100 pounds

STATE REGULATIONS

California / Prop. 65:	WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.
Massachusetts / Right To Know Act:	Glycerine is listed Carbon dioxide is listed 2,2'-iminodiethanol;diethanolamine is listed

New Jersey / Right To Know Act:	Glycerine / Substance number: 3319 __ Carbon dioxide / Substance number: 0343 __ 2,2'-iminodiethanol;diethanolamine / Substance number: 0686 2,2'-iminodiethanol;diethanolamine is on the Special Health Hazard Substance List __ 2,2',2''-nitrilotriethanol / Substance number: 4094 __
New York / Right To Know Act:	Carbon dioxide is listed Carbon dioxide is regulated with a Treshold Reporting Quantity (TRQ) of: 500 pounds __ 2,2'-iminodiethanol;diethanolamine is listed 2,2'-iminodiethanol;diethanolamine is regulated with a Reportable Quantity (RQ) of: 1 pounds 2,2'-iminodiethanol;diethanolamine is regulated with a Treshold Reporting Quantity (TRQ) of: 100 pounds __
Pennsylvania / Right To Know Act:	Glycerine is listed __ Carbon dioxide is listed __ 2,2'-iminodiethanol;diethanolamine is listed 2,2'-iminodiethanol;diethanolamine is hazardous to the environment (E) __ 2,2',2''-nitrilotriethanol is listed __

NFPA

Health hazard: 0
Fire hazard: 1
Instability hazard: 0

15.4. RESTRICTIONS FOR APPLICATION

Restricted to professional users.

15.5. DEMANDS FOR SPECIFIC EDUCATION

No specific requirements.

15.6. ADDITIONAL INFORMATION

Not applicable.

15.7. CHEMICAL SAFETY ASSESSMENT

No

15.8. SOURCES

OSHA Hazard Communication Standard (29 CFR 1910.1200)

SECTION 16: OTHER INFORMATION

FULL TEXT OF H-PHRASES AS MENTIONED IN SECTION 3

H280, Contains gas under pressure; may explode if heated.

THE FULL TEXT OF IDENTIFIED USES AS MENTIONED IN SECTION 1

None known.

ABBREVIATIONS AND ACRONYMS

ACGIH = American Conference of Governmental Industrial Hygienists
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CERCLA = Comprehensive Environmental Response Compensation and Liability Act
EINECS = European Inventory of Existing Commercial chemical Substances
EPCRA = Emergency Planning and Community Right-To-Know Act
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
HCIS = Hazardous Chemical Information System
IARC = International Agency for Research on Cancer
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
NFPA = National Fire Protection Association
NIOSH = National Institute for Occupational Safety and Health
OECD = Organisation for Economic Co-operation and Development
OSHA = Occupational Safety and Health Administration
PBT = Persistent, Bioaccumulative and Toxic
RCRA = Resource Conservation and Recovery Act
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SARA = Superfund Amendments and Reauthorization Act
SCL = A specific concentration limit.
STEL = Short-term exposure limits
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TSCA = The Toxic Substances Control Act
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

ADDITIONAL INFORMATION

The classification of the mixture in regard to physical hazards has been based on experimental data.

THE SAFETY DATA SHEET IS VALIDATED BY

Magnaflux

OTHER

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
It is recommended to hand over this safety data sheet to the actual user of the product.

Information in this safety data sheet cannot be used as a product specification.
Country-language: US-en