



Safety Data Sheet MEGADRIVE* P

1. Identification

1.1 Product identifier

Product name MEGADRIVE* P
Product code 142210

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

Recommended Use Emulsifier.
Uses advised against Consumer use

1.3 Details of the supplier of the safety data sheet

Supplier
M-I L.L.C.
P.O.Box 42842
Houston, TX 77242
www.miswaco.slb.com
Telephone: 1 281-561-1511

M-I SWACO, A Schlumberger Company
200 - 125, 9th Avenue SE
Calgary, Alberta T2G 0P6, Canada
Telephone: 1-780-962-8221

E-mail address SDS@slb.com

Prepared by
Global Regulatory Compliance - Chemicals (GRC - Chemicals)

1.4 Emergency Telephone Number

Emergency telephone (24 Hour) Asia Pacific +65 3158 1074, Europe +44 (0) 1235 239 670, Middle East and Africa +44 (0) 1235 239 671, USA +1 281 561 1600, Canada +1 800 579 7421, Argentina: +54 11 5984 3690, Brazil : 0800-720-8000/0800-777-2323 (WGRA)

2. Hazards identification

2.1 Classification of the substance or mixture

GHS - Classification

Health hazards

| | |
|-----------------------------------|------------|
| Serious eye damage/eye irritation | Category 2 |
| Skin sensitization | Category 1 |

Environmental hazards Not classified

Physical Hazards Not classified

2.2 Label elements



Signal word

WARNING

Hazard statements

H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation

Precautionary statements

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P264 - Wash face, hands and any exposed skin thoroughly after handling
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear protective gloves and eye/face protection
P321 - Specific treatment (see supplemental first aid instructions on this label)

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P363 - Wash contaminated clothing before reuse
P501 - Dispose of contents/ container to an approved waste disposal plant
P264 - Wash face, hands and any exposed skin thoroughly after handling
P280 - Wear protective gloves/protective clothing and eye/face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention

Hazards not otherwise classified

None known

Unknown acute toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity.

3. Composition/information on Ingredients

3.1 Substances

Not applicable

3.2 Mixtures

| Chemical Name | CAS No | Weight-% | Regulation (EC) No 1272/2008 |
|--|-------------|----------|------------------------------|
| Fatty amidoamines | Proprietary | 30 - 60 | Skin Sens. 1 (H317) |
| Tall oil derivative | Proprietary | 10 - 30 | Eye Irrit. 2 (H319) |
| Distillates, petroleum, hydrotreated light | 64742-47-8 | 10 - 30 | Asp. Tox. 1 (H304) |
| Glycol ether 1 | Proprietary | 1 - 5 | Eye Irrit. 2 (H319) |
| Tall oil derivative zinc salt | Proprietary | 0.1 - 1 | Not classified |

Comments

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret

4. First aid measures

4.1 First aid measures

| | |
|---------------------|--|
| Inhalation | If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult. Call a physician or poison control center immediately. |
| Ingestion | Rinse mouth. Do not induce vomiting without medical advice. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, minimize the risk of aspiration by properly positioning the affected person. Seek medical attention. |
| Skin contact | Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water. Get medical attention if irritation persists. Wash contaminated clothing before re-use. |
| Eye Contact | Rinse immediately with plenty of water, also under the eyelids. Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Immediate medical attention is required. |

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

Symptoms

| | |
|---------------------|---|
| Inhalation | Please see Section 11. Toxicological Information for further information. |
| Ingestion | Please see Section 11. Toxicological Information for further information. |
| Skin contact | Please see Section 11. Toxicological Information for further information. |
| Eye contact | Please see Section 11. Toxicological Information for further information. |

4.3 Indication of any immediate medical attention and special treatment needed

| | |
|---------------------------|--|
| Notes to physician | Treat symptomatically Keep victim under observation |
|---------------------------|--|

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water Fog, Alcohol Foam, CO₂, Dry Chemical.

Extinguishing media which must not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Unusual fire and explosion hazards

Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may travel considerable distance to source of ignition and flash back. Heating of containers may cause pressure rise, with risk of bursting.

Hazardous combustion products

When heated strongly or burned, oxides of carbon and harmful organic chemical fumes are released, Nitrogen oxides (NO_x).

5.3 Advice for firefighters

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

Special

Cool fire-exposed containers using water spray.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Evacuate and ventilate the area. Avoid contact with heat, sparks, open flame, and static discharge. Avoid contact with skin, eyes and inhalation of vapors. Do not breathe vapors or spray mist. Prevent further leakage or spillage if safe to do so. Contaminated surfaces will be extremely slippery.

6.2 Environmental precautions

Should not be released into the environment. Do not allow spilled material to enter sewers, storm drains or surface waters. As local regulations may vary; all waste must be disposed/recycled/reclaimed in accordance with federal, state, and local environmental control regulations.

Large spills released to the environment may disturb the natural chemical balance of soil/fresh water.

Environmental exposure controls

Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

Dike to collect large spills. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see Section 13).

6.4 Reference to other sections

See section 13 for more information.

7. Handling and storage

7.1 Precautions for safe handling

Handling

Handle in accordance with good industrial hygiene and safety practice. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Ensure adequate ventilation. Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and open flame. No smoking.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/precautions Keep airborne concentrations below exposure limits. Ensure adequate ventilation.

Storage precautions Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Avoid heat, flames and other sources of ignition.

8. Exposure controls/personal protection

8.1 Control parameters

Component Information

| Chemical Name | ACGIH TLV | OSHA PEL | Argentina - Occupational Exposure Limits - | Brazil - Occupational Exposure Limits - TWAs (LTs) | Mexico - Occupational Exposure Limits - |
|---------------|-----------|----------|--|--|---|
| | | | | | |

| | | | TWAs (CMPs) | | TWAs (LMPE-PPTs) |
|--|---------------------------|----------------|----------------|----------------|------------------|
| Fatty amidoamines | Not determined | Not determined | Not determined | Not determined | Not determined |
| Tall oil derivative | Not determined | Not determined | Not determined | Not determined | Not determined |
| Distillates, petroleum, hydrotreated light | 200 mg/m ³ TWA | Not determined | Not determined | Not determined | Not determined |
| Glycol ether 1 | 10 ppm | Not determined | Not determined | Not determined | Not determined |
| Tall oil derivative zinc salt | Not determined | Not determined | Not determined | Not determined | Not determined |

IDLH (Immediately Dangerous to Life or Health)

Immediately Dangerous to Life or Health (IDLH) is established by the US National Institute for Occupational Safety and Health (NIOSH). The purpose of establishing an IDLH value is to ensure that the worker can escape from a given contaminated environment in the event of failure of the most protective respiratory protection equipment. In the event of failure of respiratory protection equipment every effort should be made to exit immediately.

| Chemical Name | IDLH (Immediately Dangerous to Life or Health) |
|--|--|
| Fatty amidoamines | - |
| Tall oil derivative | - |
| Distillates, petroleum, hydrotreated light 64742-47-8 | - |
| Glycol ether 1 | - |
| Tall oil derivative zinc salt | - |

8.2 Exposure controls

A risk assessment is recommended to be performed by a qualified and trained personnel to analyze the worksite and recommends the appropriate controls such as engineering controls, work practice controls, and administrative controls as primary means of reducing employee exposure. When there is a remaining hazards after applying the primary controls, Personal Protective Equipment (PPE) must be used.

All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazard present and the risk of exposure to those hazards. The PPE recommendations below are based on an assessment of the chemical hazards associated with this product. Where this product is used in a mixture with other products or fluids, additional hazards may be created and as such further assessment of risk may be required. The risk of exposure and need of respiratory protection will vary from workplace to workplace and should be assessed by the user in each situation.

Engineering Controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye protection

Tightly fitting safety goggles.

Hand protection

Impervious gloves made of: Nitrile Viton Frequent change is advisable Be aware that liquid may penetrate the gloves. Frequent change is advisable.

Respiratory Protection

All respiratory protection equipment should be used within a comprehensive respiratory protection program that meets the requirements of 29 CFR 1910.134 (U.S. OSHA Respiratory Protection Standard) or local equivalent.If exposed to airborne mist/aerosol of this product, use an organic vapor cartridge with a P-95 pre-filter attached. In work environments containing oil mist/aerosol, use an organic vapor cartridge with a P-95 pre-filter attached.If exposed to vapors from this product, use a NIOSH/MSHA-approved respirator with an organic vapor cartridge.

Skin and body protection

Wear suitable protective clothing, Eye wash and emergency shower must be available at the work place.

Hygiene Measures

Wash hands before breaks and immediately after handling the product, Remove and wash contaminated clothing before re-use.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|----------------|--------------------------|
| Physical state | Liquid |
| Appearance | No information available |
| Color | Dark brown |
| Odor | Slight Hydrocarbon odor. |
| Odor threshold | Not applicable |

| <u>Property</u> | <u>Values</u> | <u>Remarks</u> |
|------------------------------|--------------------------------|--------------------------------------|
| pH | | |
| pH @ dilution | 3 - 4 | 5% w/w in 50/50 isopropanol/solution |
| Melting / freezing point | < -24 °C / <-11.2 °F | |
| Boiling point/range | No information available | |
| Flash point | 94 °C / 201.2 °F | Closed cup |
| Evaporation rate (BuAc =1) | No information available | |
| Flammability (solid, gas) | Not applicable | |
| Flammability Limit in Air | | |
| Upper flammability limit | No information available | |
| Lower flammability limit | No information available | |
| Vapor pressure | No information available | |
| Vapor density | No information available | |
| Specific gravity | 0.94 - 0.98 | |
| Bulk density | No information available | |
| Water solubility | Negligible | |
| Solubility in other solvents | No information available | |
| Autoignition temperature | No information available | |
| Decomposition temperature | No information available | |
| Kinematic viscosity | 320 cSt @ 40 °C | |
| Dynamic viscosity | 400 - 900 cPs room temperature | |
| log Pow | No information available | |
| Explosive properties | No information available | |
| Oxidizing properties | No information available | |

9.2 Other information

| | |
|------------------|--------------------------|
| Pour point | No information available |
| Molecular weight | No information available |
| VOC content(%) | No information available |
| Density | No information available |

Comments

The data listed above are typical physical and chemical properties and should not be construed as product specification.

10. Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of Hazardous Reactions

Hazardous polymerization

Hazardous polymerization does not occur.

10.4 Conditions to avoid

Keep away from sources of ignition - No smoking. Heat, flames and sparks. Do not freeze.

10.5 Incompatible materials

Oxidizing agents. Acids. Bases.

10.6 Hazardous decomposition products

When heated strongly or burned, oxides of carbon and harmful organic chemical fumes are released. See also section 5.2.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Inhalation May cause respiratory irritation.

Eye contact Causes serious eye irritation.

Skin contact Prolonged skin contact may defat the skin and produce dermatitis.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Component: Proprietary tall oil derivative LD50 Oral = 6600 mg/kg
Component: Tall oil derivative zinc salts LD50 Oral and Dermal >2000 mg/kg

Toxicology data for the components

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--|------------------------------------|---|------------------------|
| Fatty amidoamines | > 2020 mg/kg (Rat) Literature data | > 2000 mg/kg (Rat) OECD 402 - Duration: 24h - Literature data | No data available |
| Tall oil derivative | No data available | No data available | No data available |
| Distillates, petroleum, hydrotreated light | > 5000 mg/kg (Rat) | 2000 mg/kg (Rabbit) | > 5.2 mg/L (Rat) 4 h |
| Glycol ether 1 | = 5660 mg/kg (Rat) | = 2700 mg/kg (Rabbit) | No data available |
| Tall oil derivative zinc salt | No data available | No data available | No data available |

| Chemical Name | IARC Group 1 or 2 | ACGIH - Carcinogens | OSHA listed carcinogens | NTP |
|--|-------------------|---------------------|-------------------------|-------------------|
| Fatty amidoamines | No data available | No data available | No data available | No data available |
| Tall oil derivative | No data available | No data available | No data available | No data available |
| Distillates, petroleum, hydrotreated light | No data available | No data available | No data available | No data available |
| Glycol ether 1 | No data available | No data available | No data available | No data available |
| Tall oil derivative zinc salt | No data available | No data available | No data available | No data available |

Sensitization May cause allergic skin reaction.

Mutagenic effects No evidence of mutagenic properties.

Carcinogenicity Contains a known or suspected carcinogen.

Reproductive toxicity No evidence of toxicity to reproduction.

Developmental toxicity Not known to cause birth defects or have a deleterious effect on a developing fetus.

Routes of exposure Skin contact. Inhalation. Eye contact.

Routes of entry None known.

Specific target organ toxicity - Single exposure Not classified

Specific target organ toxicity - Multiple exposure Not classified.

Repeated exposure

Aspiration hazard Not classified.

12. Ecological information

12.1 Toxicity

Toxicity to algae

See component information below.

Toxicity to fish

See component information below.

Toxicity to daphnia and other aquatic invertebrates

See component information below.

| Chemical Name | Toxicity to fish | Toxicity to algae | Toxicity to daphnia and other aquatic invertebrates |
|--|---|---|---|
| Fatty amidoamines | OECD 203 Fish LC50 > 100 mg/l - Duration h: 96 Literature data | OECD 201 Algae EC50 > 100 mg/l - Duration h: 72 Literature data | OECD 202 Daphnia magna NOEC = 100 mg/l - Duration h: 48 Literature data |
| Tall oil derivative | No information available | No information available | No information available |
| Distillates, petroleum, hydrotreated light | = 45 mg/L LC50 Pimephales promelas 96 h = 2.2 mg/L LC50 Lepomis macrochirus 96 h = 2.4 mg/L LC50 Oncorhynchus mykiss 96 h | No information available | = 4720 mg/L LC50 Den-dronereides heteropoda 96 h |
| Glycol ether 1 | = 1300 mg/L LC50 Lepomis macrochirus 96 h | > 100 mg/L EC50 Desmodesmus subspicatus 96 h | = 2850 mg/L EC50 Daphnia magna 24 h > 100 mg/L EC50 Daphnia magna 48 h |
| Tall oil derivative zinc salt | No information available | No information available | No information available |

12.2 Persistence and degradability

No product level data available.

12.3 Bioaccumulative potential

No product level data available.

12.4 Mobility in soil

The product is insoluble and floats on water.

12.5 Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)
This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

12.6 Other adverse effects.

None known.

13. Disposal considerations

13.1 Waste treatment methods

| | |
|-------------------------------|---|
| Disposal Method | As local regulations may vary; all waste must be disposed/recycled/reclaimed in accordance with federal, state, and local environmental control regulations. |
| Contaminated packaging | Empty containers should be taken for local recycling, recovery or waste disposal. If recycling is not practicable, dispose of in compliance with local regulations. Do not burn, or use a cutting torch on, the empty drum. |

14. Transport information

14.1. UN number

| | |
|-----------------------------|---------------|
| UN No. (DOT) | Not regulated |
| UN No. (MT/ANTT) | Not regulated |
| UN No. (TDG) | Not regulated |
| UN/ID No. (ADR/RID/ADN/ADG) | Not regulated |
| UN No. (IMDG/ANTAQ) | Not regulated |
| UN No. (ICAO/ANAC) | Not regulated |

14.2. UN proper shipping name

The product is not covered by international regulation on the transport of dangerous goods

14.3 Hazard class(es)

| | |
|---------------------------------|---------------|
| DOT Hazard class | Not regulated |
| ANTT Hazard class | Not regulated |
| TDG Hazard class | Not regulated |
| ADR/RID/ADN/ADG Hazard class | Not regulated |
| IMDG/ANTAQ Hazard class | Not regulated |
| ICAO/ANAC Hazard class/division | Not regulated |

14.4 Packing group

| | |
|-------------------------------|---------------|
| DOT/ANTT Packing group | Not regulated |
| ANTT Packing group | Not regulated |
| TDG Packing group | Not regulated |
| ADR/RID/ADN/ADG Packing group | Not regulated |
| IMDG/ANTAQ Packing group | Not regulated |
| ICAO/ANAC Packing group | Not regulated |

14.5 Environmental hazard

No

14.6 Special precautions

Not applicable

15. Regulatory information

International inventories

| | |
|---------------------|-----------------|
| USA (TSCA) | Complies |
| Canada (DSL) | Complies |
| Philippines (PICCS) | Does not comply |
| Japan (ENCS) | Does not comply |
| China (IECSC) | Does not comply |

Australia (AICS)
Korean (KECL)
New Zealand (NZIoC)

Does not comply
Complies
Complies

Europe - REACH

All products supplied from the European Economic Area (EEA) are compliant with the REACH Regulation EC 1907/2006. For products supplied from the EEA, Schlumberger and/or its suppliers have pre-registered and is registering all of the substances that it and/or its suppliers manufactures in or imports into the EEA that are subject to Title II of the REACH Regulation. All products supplied from outside the EEA are subject to REACH only if imported into the EEA. The importer of the products must comply with REACH for each imported substance. Contact REACH@slb.com for REACH information.

IMPORTS, Canada

No import volume restrictions.

U.S. Federal and State Regulations

SARA 311/312 Hazard Categories

Immediate (acute) health hazard.

| Chemical Name | SARA 302 / TPQs | SARA 313 | CERCLA RQ |
|--|-----------------|----------|-----------|
| Fatty amidoamines | N/A | N/A | N/A |
| Tall oil derivative | N/A | N/A | N/A |
| Distillates, petroleum, hydrotreated light | N/A | N/A | N/A |
| Glycol ether 1 | N/A | N/A | N/A |
| Tall oil derivative zinc salt | N/A | N/A | N/A |

State Comments

Proposition 65: This product is not known to contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer and/or reproductive toxicity at levels that are expected to pose a significant risk under anticipated use conditions.

Canadian Classification

This Safety Data Sheet has been prepared in compliance with the Hazardous Products Regulations.

HMIRA Registration Number: 11857

Filing Date:

16/Nov/2017

16. Other information

Supersedes date 12/May/2017

Revision date 17/Nov/2017

Version 2

This SDS has been revised in the following section(s) 15. Regulatory Information Prepared in accordance with WHMIS 2015 Globally Harmonized System (GHS)

HMIS classification

Health 2*
Flammability 1
Physical hazard 0
PPE X

N/A - Not Applicable, N/D - Not Determined.

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