

SAFETY DATA SHEETS

This SDS packet was issued with item:

077109416

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

070965608 077109408 077109424 70965608

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MSDS # 3052

Material Safety Data Sheet

Revision: 3

1. PRODUCT IDENTIFICATION

PRODUCT NAME: EM-1212SF2
PRODUCT CLASS: Resin Emulsion
PRODUCT FAMILY: External Mold Release

PRODUCT DESCRIPTION: Proprietary resin emulsion of polyolefins and fluoropolymer in combination with wetting agents and surfactant in a water vehicle.

2. COMPOSITION INFORMATION

No Hazardous Ingredients

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Description: Off white color aqueous emulsion. It may cause irritation to eyes.
Material is a non-flammable liquid.

HMIS Rating

Health	1
Flammability	0
Reactivity	0

POTENTIAL HEALTH EFFECTS

EFFECTS OF OVER-EXPOSURE:

EYES: May cause temporary irritation.
SKIN: May cause irritation.
INHALATION: May cause headaches.
INGESTION: Minimal toxicity.

4. FIRST AID MEASURES

EYES: Immediately flush with liberal amounts of water for at least 15 minutes. Get prompt medical attention.

SKIN: Wash area with detergent and water.

INHALATION: Remove to fresh air. If not breathing, give mouth-to-mouth resuscitation. If breathing difficult, give oxygen. Call a physician.

INGESTION: Do not induce vomiting. Get prompt medical attention.

5. FIRE-FIGHTING MEASURES

FLASH POINT: Non-Flammable (C.O.C)

EXTINGUISHING MEDIA: Water; Sand; Foam; CO₂; Dry Chemicals.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS: Wear NIOSH approved self-contained breathing apparatus with full face piece and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Contain spill. If container is damaged, transfer to another closed lined metal or plastic container. Use absorbent material to collect and contain for salvage or disposal.

7. HANDLING AND STORAGE

Do not consume food, drink or tobacco in areas where they may be contaminated by this material. Wash hands before eating, drinking or smoking.

Indoor storage recommended. Avoid freezing. Keep container closed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION: USE IN ADEQUATELY VENTILATED AREAS.

LOCAL EXHAUST: PREFERABLE
MECHANICAL: ACCEPTABLE
SPECIAL: NONE KNOWN TO AXEL PLASTICS

SKIN PROTECTION: GENERALLY NOT REQUIRED. DEPENDING UPON CONDITION OF USE. IMPERVIOUS GLOVES AND APRON RECOMMENDED TO PREVENT SKIN CONTACT.

EYE PROTECTION: SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES.

RESPIRATORY PROTECTION: RESPIRATORY MASK IS NOT REQUIRED FOR PROPERLY VENTILATED AREAS. IF VAPOR OR MIST ACCUMULATES, USE **NIOSH** APPROVED RESPIRATOR.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
COLOR:	Off white
ODOR:	Odorless
pH VALUE:	10.5 Min: 9.5 Max: 11.5
BOILING POINT:	200 – 220°F / 93 – 104°C
FLASH POINT:	Non-Flammable (C.O.C)
MELTING POINT:	Not applicable
SPECIFIC GRAVITY @ 25°C:	0.990
VISCOSITY @ 25°C:	< 15 cps
SOLUBILITY IN WATER:	Soluble
PERCENTAGE VOLATILE:	88%
EVAPORATION RATE:	Not applicable

10. STABILITY AND REACTIVITY

STABILITY:	Stable.
INCOMPATIBILITIES:	Avoid freezing.
HAZARDOUS POLYMERIZATION:	Will not occur.
HAZARDOUS DECOMPOSITION:	Carbon dioxide and/or Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

12. ECOLOGICAL INFORMATION

Not expected to be acutely toxic to aquatic organisms.

13. DISPOSAL CONSIDERATION

The transportation, storage, treatment and disposal of this material must be conducted in compliance with all applicable National and Local regulations.

14. TRANSPORT INFORMATION

PROPER SHIPPING NAME:	Resin Emulsion	UN No	: Unregulated
D.O.T. HAZARD CLASS	: Unrestricted	ADR/RID (ROAD/RAIL):	Unregulated
D.O.T. ID NUMBER	:	IMO (OCEAN)	: Unregulated
D.O.T. HAZARD NAME	:	PACKAGING GROUP	: Unregulated
		IATA (AIR)	: Unregulated

15. REGULATORY INFORMATION

All components in this product are on the **TSCA (USA), DSL (Canada), EINECS (Europe), AICS (Australia) and ENCS (Japan)** regulatory lists.

All **MOLD WIZ, CLEAN WIZ & XTEND** products are proprietary, complex mixtures which, according to government regulations, are not required to be registered.

16. OTHER INFORMATION

THIS DATA IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.

Safety Data Sheet

acc. to OSHA HCS

Printing date 11/19/2015

Reviewed on 11/10/2015

1 Identification

- **Product identifier**
- **Trade name:** MoldWiz® EM-1212SF2
- **Application of the substance / the mixture** Release agent
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Axel Plastics Research Laboratories, Inc.
PO Box 770855, 58-20 Broadway
Woodside, NY 11377-0855 USA
info@axelplastics.com
- **Information department:** Product safety department
- **Emergency telephone number:**
USA and Canada: 1-800-424-9300 (24 hours)
Outside of USA and Canada: 001-703-527-3887 (24 hours)

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS05

- **Signal word** Danger
- **Hazard-determining components of labeling:**
2-diethylaminoethanol
Proprietary/Alternative Chemical Name Pending
- **Hazard statements**
Causes skin irritation.
Causes serious eye damage.
- **Precautionary statements**
Wear protective gloves.
Wear eye protection / face protection.
Wash thoroughly after handling.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
Specific treatment (see on this label).
If skin irritation occurs: Get medical advice/attention.
IF ON SKIN: Wash with plenty of water.
Take off contaminated clothing and wash it before reuse.
- **Additional information:**
4.2 % of the mixture consists of component(s) of unknown toxicity.

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- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 1
Fire = 0
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 1
Fire = 0
Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

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

- **Dangerous components:**

100-37-8	2-diethylaminoethanol	2.5-<5%
	Proprietary/Alternative Chemical Name Pending	1-≤2.5%

4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- **Environmental precautions:**
Dilute with plenty of water.

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- Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
- **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

- **Handling:**
- **Precautions for safe handling** Store in cool, dry place in tightly closed receptacles.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **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.
- **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

100-37-8 2-diethylaminoethanol

PEL	Long-term value: 50 mg/m ³ , 10 ppm Skin
REL	Long-term value: 50 mg/m ³ , 10 ppm Skin
TLV	Long-term value: 9.6 mg/m ³ , 2 ppm Skin

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the skin.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/
the chemical mixture.

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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:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Fluid
Color:	Whitish
Odor:	Odorless
Odor threshold:	Not determined.

- **pH-value at 20 °C (68 °F):** 10.5

- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	93 - 104 C

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Not applicable.

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

- **Vapor pressure at 20 °C (68 °F):** 23 hPa (17 mm Hg)

- **Density:** Not determined.

- **Relative density** Not determined.

- **Vapor density** Not determined.

- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with**

Water: Fully miscible.

- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:** < 15 cps @ 25C

- **Dynamic:** Not determined.

- **Kinematic:** Not determined.

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- | | |
|----------------------------|--|
| · Solids content: | 12.0 % |
| · Other information | No further relevant information available. |

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** The product is stable under recommended storage conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- **Carcinogenic categories**

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

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **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.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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· **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- | | |
|--|-----------------|
| · UN-Number | |
| · DOT, ADN, IMDG, IATA | not regulated |
| · UN proper shipping name | |
| · DOT, ADN, IMDG, IATA | not regulated |
| · Transport hazard class(es) | |
| · DOT, ADN, IMDG, IATA | |
| · Class | not regulated |
| · Packing group | |
| · DOT, IMDG, IATA | not regulated |
| · Environmental hazards: | Not applicable. |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | not regulated |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

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

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act) (Substances not listed):**

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.

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· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **New Jersey Right-to-Know List:**

100-37-8 | 2-diethylaminoethanol

· **New Jersey Special Hazardous Substance List:**

None of the ingredients is listed.

· **Pennsylvania Right-to-Know List:**

100-37-8 | 2-diethylaminoethanol

· **Pennsylvania Special Hazardous Substance List:**

None of the ingredients is listed.

· **US State Regulations**

· **Connecticut - Hazardous Air Pollutants - HLVs (30 min)**

None of the ingredients is listed.

· **Connecticut - Hazardous Air Pollutants - HLVs (8 hr)**

None of the ingredients is listed.

· **Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)**

None of the ingredients is listed.

· **Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations**

None of the ingredients is listed.

· **Occupational Exposure Limits - TWAs**

None of the ingredients is listed.

· **Michigan - Occupational Exposure Limits - Skin Designations**

None of the ingredients is listed.

· **Michigan - Occupational Exposure Limits - TWAs**

None of the ingredients is listed.

· **Minnesota - Hazardous Substance List**

None of the ingredients is listed.

· **Minnesota - Permissible Exposure Limits - Skin Designations**

None of the ingredients is listed.

· **Minnesota - Permissible Exposure Limits - TWAs**

None of the ingredients is listed.

· **New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour**

None of the ingredients is listed.

· **New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual**

None of the ingredients is listed.

· **New York - Occupational Exposure Limits - Skin Designations**

None of the ingredients is listed.

· **New York - Occupational Exposure Limits - TWAs**

None of the ingredients is listed.

· **North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour**

None of the ingredients is listed.

· **North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour**

None of the ingredients is listed.

· **Oregon - Permissible Exposure Limits - TWAs**

None of the ingredients is listed.

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· **Tennessee - Occupational Exposure Limits - Skin Designations**

None of the ingredients is listed.

· **Tennessee - Occupational Exposure Limits - TWAs**

None of the ingredients is listed.

· **Texas - Effects Screening Levels - Long Term**

None of the ingredients is listed.

· **Texas - Effects Screening Levels - Short Term**

None of the ingredients is listed.

· **Vermont - Permissible Exposure Limits - Skin Designations**

None of the ingredients is listed.

· **Vermont - Permissible Exposure Limits - TWAs**

None of the ingredients is listed.

· **Washington - Permissible Exposure Limits - Skin Designations**

None of the ingredients is listed.

· **Washington - Permissible Exposure Limits - STELs**

None of the ingredients is listed.

· **Washington - Permissible Exposure Limits - TWAs**

None of the ingredients is listed.

· **Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet**

None of the ingredients is listed.

· **Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet**

None of the ingredients is listed.

· **Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater**

None of the ingredients is listed.

· **Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet**

None of the ingredients is listed.

· **Carcinogenic 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.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS05

· **Signal word Danger**

· **Hazard-determining components of labeling:**

2-diethylaminoethanol

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Trade name: MoldWiz® EM-1212SF2

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Proprietary/Alternative Chemical Name Pending

· **Hazard statements**

Causes skin irritation.

Causes serious eye damage.

· **Precautionary statements**

Wear protective gloves.

Wear eye protection / face protection.

Wash thoroughly after handling.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a POISON CENTER/doctor.

Specific treatment (see on this label).

If skin irritation occurs: Get medical advice/attention.

IF ON SKIN: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

· **National regulations:**

The components of this product are listed on the USA (TSCA) inventory.

The components of this product are listed on the European (EINECS) inventory.

The components of this product are listed on the Canadian (DSL) inventory.

The components of this product are listed on the South Korean (KECI) inventory.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

Disclaimer: This data is offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review recommendations in the specific context of the intended use and determine whether they are appropriate.

· **Contact:** info@axelplastics.com

· **Date of preparation / last revision** 11/19/2015 / -

· **Abbreviations and acronyms:**

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

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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

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

US