



SAFETY DATA SHEET

Date of issue/Date of revision 09-23-2024

Version 1

Section 1. Identification

Product name: MasFlash Liquid Applied Flashing
Product Numbers: 2-Gallon MF-00502, 5-Gallon MF-00503
Other means of identification: Caulk, Sealant
Product type: Paste

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

Product use: Consumer applications, Professional applications
Use of the substance/mixture: Caulking, Sealing
Uses advised against: Not applicable
Distributed by: MasFlex, Miami, FL
Emergency telephone number: Chemtrec: 1-800-424-9300
MasFlex Customer Service: info@masflex.org

Section 2. Hazards 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

CARCINOGENICITY - Category 1A
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 63%

GHS label elements

Hazard pictograms



Signal word

Hazard statements

Danger
May cause eye irritation
May cause cancer
May cause genetic defects
May cause damage to organs through prolonged exposure.

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Precautionary statements

General:	Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe vapor.
Response:	Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention.
Storage:	Store locked up.
Disposal:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements:	Sanding and grinding dusts may be harmful if inhaled. This product contains Crystalline Silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Since this product is not meant to be sanded or sprayed, risk of exposure is considered low. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.
Hazards not otherwise classified:	Prolonged or repeated contact may dry skin and cause irritation

Section 3. Composition/information on ingredients

Substance/mixture:	Mixture
Product name:	ExoSeal Liquid Applied Flashing

Ingredient name	%	CAS number
Limestone	30-40	1317-65-3
SBR Latex	40-60	Trade Secret
Ethylene Glycol	< 1.0	107-21-1
Non-ionic Surfactant	0.5-1.5	9036-19-5
Titanium Dioxide	1-2	13463-67-7
Crystalline Silica, respirable powder (<10 microns)	0.1 – 1	14808-60-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary first aid measures

Eye contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or

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Skin contact	use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	Direct contact may cause slight to moderate irritation.
Inhalation	May cause slight irritation to respiratory passages – headache – dizziness.
Skin contact	May cause allergic skin reactions and / or central nervous system depression. May cause skin dryness and irritation.
Ingestion	Low ingestion hazard in normal use.

Over-exposure signs/symptoms

Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	Adverse symptoms may include the following: irritation dryness cracking
Ingestion	No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	No specific treatment.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel"

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Special precautions

If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Do not store below the following temperature: 5°C (41°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and

drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name

Limestone

White mineral oil (petroleum)

Ethylene Glycol

Titanium Dioxide

Crystalline Silica, respirable powder (<10 microns)

Exposure limits

OSHA PEL (United States, 2/2013). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction

TWA: 15 mg/m³ 8 hours. Form: Total dust

ACGIH TLV (United States, 6/2013). TWA: 5 mg/m³ 8 hours.

Form: Inhalable fraction

OSHA PEL (United States, 2/2013).

TWA: 5 mg/m³ 8 hours.

ACGIH TLV (United States, 6/2013).

C: 100 mg/m³ Form: Aerosol

OSHA PEL (United States, 2/2013). TWA: 15 mg/m³ 8 hours. Form:

Total dust **ACGIH TLV (United States, 6/2013).**

TWA: 10 mg/m³ 8 hours.

ACGIH TLV (United States, 6/2013). TWA: 0.025 mg/m³ 8

hours. Form: Respirable

OSHA PEL Z3 (United States, 2/2013).

Key to abbreviations

A = Acceptable Maximum Peak

ACGIH = American Conference of Governmental Industrial Hygienists.

C = Ceiling Limit

F = Fume

IPEL = Internal Permissible Exposure Limit

OSHA = Occupational Safety and Health Administration.

R = Respirable

Z = OSHA 29CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

S = Potential skin absorption

SR = Respiratory sensitization

SS = Skin sensitization

STEL = Short term Exposure limit values

TD = Total dust

TLV = Threshold Limit Value

TWA = Time Weighted Average

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate engineering controls

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing.

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Eye/face protection	Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Skin protection	Safety glasses with side shields
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
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. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

Appearance

Physical state	Thick Fluid
Color	Teal
Odor	Mild
Odor threshold	Not available
pH	7.5-8.5
Melting point	Not available
Boiling point	>37.78°C (>100°F)
Flash point	Closed cup: 93.89°C (201°F)
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Flammability (solid, gas)	Not available
Lower and upper explosive (flammable) limits	Not available
Evaporation rate	0.31 (butyl acetate = 1)
Vapor pressure	2.3 kPa (17 mm Hg) [room temperature]
Vapor density	Not available
Relative density	1.16
Density (lbs / gal)	9.68
Solubility	Soluble in Water
Partition coefficient: n- octanol/water	Not available
Viscosity	15-40 g/s
Volatility	35% (v/v), 30% (w/w)
% Solid. (w/w)	70

Section 10. Stability and reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	When exposed to high temperatures may produce hazardous decomposition products.. Refer to protective measures listed in sections 7 and 8
Incompatible materials	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen

Section 11. Toxicological information

Information on toxicological effects Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Ethylene Glycol	LD50 Dermal	Rabbit	9.53 g/kg	-
	LD50 Oral	Rat	4700 mg/kg	-
Titanium Dioxide	LD50 Oral	Rat	>10 g/kg	-

Conclusion/Summary There are no data available on the mixture itself.

Irritation/Corrosion

Conclusion/Summary

Skin There are no data available on the mixture itself.

Eyes There are no data available on the mixture itself.

Respiratory There are no data available on the mixture itself.

Sensitization

Conclusion/Summary

Skin There are no data available on the mixture itself.

Eyes There are no data available on the mixture itself.

Respiratory

Mutagenicity

Conclusion/Summary There are no data available on the mixture itself.

Carcinogenicity

Conclusion/Summary There are no data available on the mixture itself.

Classification

Product/ingredient name	OSHA	IARC	NTP
Titanium Dioxide Crystalline Silica,-	2B	-	-
respirable powder (<10 microns) -	1	-	Known to be a human carcinogen.

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: +

Not listed/not regulated: -

Reproductive toxicity

Conclusion/Summary There are no data available on the mixture itself.
Teratogenicity

Conclusion/Summary There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name	Category
Ethylene Glycol	Category 2
Crystalline Silica, respirable powder (<10 microns)	Category 2

Target organs Contains material which may cause damage to the following organs: kidneys, lungs, heart, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Aspiration hazard

Name	Result
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Information on the likely routes of exposure

Potential acute health effects

Eye contact Direct contact may cause slight to moderate irritation
Inhalation May cause slight irritation to respiratory passages – headache – dizziness.
Skin contact May cause allergic skin reactions and / or central nervous system depression. May cause skin dryness and irritation
Ingestion Low ingestion hazard in normal use.

Over-exposure signs/symptoms

Eye contact No specific data.
Inhalation No specific data.
Skin contact Adverse symptoms may include the following:
 irritation
 dryness
 cracking
Ingestion No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Conclusion/Summary There are no data available on the mixture itself. This product contains Crystalline Silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

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Short term exposure

Potential immediate effects There are no data available on the mixture itself.
Potential delayed effects There are no data available on the mixture itself.

Long term exposure

Potential immediate effects There are no data available on the mixture itself.
Potential delayed effects There are no data available on the mixture itself.

Potential chronic health effects

General May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity No known significant effects or critical hazards.
Teratogenicity No known significant effects or critical hazards.
Developmental effects No known significant effects or critical hazards.
Fertility effects No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	14103.8 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Titanium Dioxide	Acute EC50 100 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Ethylene Glycol	-1.36	-	low

Mobility in soil

Soil/water partition coefficient (KOC) Not available.

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14. Transport information

	DOT	IMDG	IATA
UN number	UN3082	Not regulated.	Not regulated.
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (carbendazim (ISO))	-	-
Transport hazard class (es)	9	-	-
Packing group	III	-	-
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	14992.5	Not applicable.	Not applicable.
RQ substances	(carbendazim (ISO))	Not applicable.	Not applicable.

Additional information

DOT

IMDG

IATA

Special precautions for user

Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

None identified.

None identified.

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

United States inventory (TSCA 8b)	All components are listed or exempted.
Australia inventory (AICS)	Not determined
Canada inventory (DSL)	All components are listed or exempted.
China inventory (IECSC)	Not determined
Europe inventory (REACH)	Please contact your supplier for information on the inventory status of this material.
Japan inventory (ENCS)	Not determined
Korea inventory (KECI)	Not determined
Philippines inventory (PICCS)	Not determined

United States SARA302/304

SARA 304 RQ Not applicable.

Composition/information on ingredients

No products were found.

SARA311/312

Classification Immediate (acute) health hazard
D elayed (chronic) health hazard

Composition/information on ingredients

Name	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Ethylene Glycol	No.	No.	No.	Yes.	Yes.
Titanium Dioxide	No.	No.	No.	No.	Yes.
Crystalline Silica, respirable powder (<10 microns)	No.	No.	No.	No.	Yes.

SARA313

Supplier notification	Chemical name	CAS number	Concentration
	Ethylene Glycol	107-21-1	0.5 - 1.5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Pennsylvania (worker and community right to know act): The following components are cited in the Pennsylvania Hazardous Substances List, and are present at levels that require reporting.

Ethylene Glycol	107-21-1	< 2%
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California Prop. 65: ⚠️ **WARNING:** This product can expose you to chemicals including Crystalline Silica (respirable powder), TiO2 and ethylene glycol, which are known to the State of California to cause cancer and birth defects or other reproductive

harm. For more information go to www.P65Warnings.ca.gov.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health : 2 * **Flammability** : 1 **Physical hazards** : 0

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Health : 2 **Flammability** : 1 **Instability** : 0

Date of previous issue

No previous validation.

Organization that prepared the MSDS

EHS

Key to abbreviations

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

Disclaimer

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