

Safety Data Sheet

MULTI SEAL

SDS Revision Date: 12/24/2021



1. Identification

1.1. Product identifier

Product Identity

MULTI SEAL

Alternate Names

10-315, Blended Formula, Multi Seal Teflon Pipe Joint Sealant- 1/4 pt

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

Intended use

It is used as an all-purpose pipe joint compound and gasket cement. Not for oxygen lines.

Application Method

Read all precautions and instructions carefully before and after use.

1.3. Details of the supplier of the safety data sheet

Company Name

ComStar International Inc.
20-47 128th Street,
College Point, NY 11356

Telephone No.

718-445-7900
800-328-0142
Fax: 718-353-5998

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Reproductive toxicity. 1B; H360 May damage fertility or the unborn child

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



Warning

[Hazard statement]:

H360 May damage fertility or the unborn child.

[Prevention]:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

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[Storage]:

P405 Store locked up

[Disposal]:

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Endocrine disrupting chemical(s)

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
DIOCTYLPHATE CAS#: 117-81-7	<10	Repr. 1B H360	
HERCOLYN D CAS#: 8050-15-5	<5	Not Classified	
POLY S 24 CAS# 143-24-8	<10	Not Classified	
ZINC OXIDE CAS#: 1314-13-2	<5	Eye Irrit. - 2, STOT SE. -3	
POLYLUBE J34 CAS#: 9002-84-0	<5	Eye Irrit. 2 H319 STOT SE 3 H335	
PTFE	<5	Not Classified	

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General	Show this material safety data sheet to the doctor in attendance.
Inhalation	After inhalation: fresh air. Call in physician.
Eyes	After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.
Skin	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do not induce vomiting.
If swallowed	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

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

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Overview

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam Carbon dioxide (CO₂) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture

Carbon oxides

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapors possible in the event of fire.

5.3. Advice for fire-fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4. Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

ERG Guide No. ---

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

7. Handling and storage

7.1. Precautions for safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapors/aerosols.

Hygiene measures

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Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
DIOCTYLPHATE	117-81-7	TWA	5 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Confirmed animal carcinogen with unknown relevance to humans		
		TWA	5 mg/m ³	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen		
		ST	10 mg/m ³	USA. NIOSH Recommended Exposure Limits
		TWA	5 mg/m ³	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5 mg/m ³	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		STEL	10 mg/m ³	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		PEL	5 mg/m ³	California permissible

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				exposure limits for chemical contaminants (Title 8, Article 107)
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Carcinogen Data

CAS No.	Ingredient	Source	Value
117-81-7	DIOCTYLPHATE	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
1314-13-2	ZINC OXIDE	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
9002-84-0	POLYLUBE J34	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: Yes
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
8050-15-5	HERCOLYN D	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: Yes
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
143-24-8	POLY S 24	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
N/A	PTFE	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure controls

Respiratory

Required when vapors/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Body Protection

protective clothing

Eyes/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

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Skin	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full contact Material: Nitrile rubber Minimum layer thickness: 0.2 mm Break through time: 480 min Material tested: Dermatril® P (KCL 743 / Aldrich Z677388, Size M) Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 230 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
Engineering Controls	Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
Control of environmental exposure	Do not let product enter drains.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance	Oily, colorless
Odor	Odorless
Odor threshold	Not Measured
pH	at 20 °C (68 °F) neutral
Melting point / freezing point	-50 °C (-58 °F) - lit.
Initial boiling point and boiling range	384 °C 723 °F - lit.
Flash Point	207 °C (405 °F) - closed cup
Evaporation rate (Ether = 1)	Not Measured
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: 0.3 %(V) Upper Explosive Limit: 199C(390F): NA
Vapor pressure (Pa)	1.6 hPa at 93.0 °C (199.4 °F)
Vapor Density	Not Measured
Specific Gravity	No data available
Solubility in Water	ca.0.086 g/l at 25 °C (77 °F) - OECD Test Guideline 105 - insoluble
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	390.0 °C (734.0 °F)
Decomposition temperature	Not Measured
Viscosity (cSt)	ca.78.17 mm ² /s at 20 °C (68 °F) - OECD Test Guideline 114 -

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Volatiles (% by weight)	NA
Octanol/Water Partition Coefficient	NA
Explosive properties	No data available
Oxidizing properties	none
9.2. Other information	
No other relevant information.	

10. Stability and reactivity

10.1. Reactivity

Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

10.2. Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Strong heating.

10.5. Incompatible materials

Strong Oxidizing agents

10.6. Hazardous decomposition products

In the event of fire: see section 5

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD0 Oral - Rat - male and female - > 20,000 mg/kg
(OECD Test Guideline 401)

LC0 Inhalation - Rat - male and female - 4 h - > 10.62 mg/l
(OECD Test Guideline 403)

Remarks: (highest concentration to be prepared)

LD50 Dermal - Rabbit - 19,800 mg/kg

Remarks: (ECHA)

No data available

Skin corrosion/irritation

Skin - Rabbit

Result: slight irritation - 4 h
(OECD Test Guideline 404)

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Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation - 72 h
(OECD Test Guideline 405)

Respiratory or skin sensitization

Maximization Test - Guinea pig

Result: negative

(OECD Test Guideline 406) - Mouse

Result: Does not cause respiratory sensitization.

Remarks: (ECHA)

Germ cell mutagenicity

Test Type: In vitro mammalian cell gene mutation test

Test system: Mouse lymphoma test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Mutagenicity (mammal cell test): chromosome aberration.

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Test Type: sister chromatid exchange assay

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 479

Result: negative

Test Type: Micronucleus test

Test system: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Result: negative

Remarks: (ECHA)

Test Type: Chromosome aberration test

Species: Rat

Cell type: Bone marrow

Application Route: Oral

Method: OECD Test Guideline 475

Result: negative

Test Type: unscheduled DNA synthesis assay

Species: Rat

Cell type: Liver cells

Application Route: Oral

Method: OECD Test Guideline 486

Result: negative

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Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Bis(2-ethylhexyl) phthalate)

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity

May damage the unborn child.

May damage fertility.

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Additional Information

Repeated dose toxicity - Rat - male and female - Oral - 104 Weeks - NOAEL (No observed adverse effect level) - 28.9 mg/kg

RTECS: T10350000

Effects due to ingestion may include: Gastrointestinal disturbance To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Kidney -

12. Ecological information

12.1. Toxicity

Toxicity to fish

Flow-through test LC50 - Pimephales promelas (fathead minnow) - > 0.67 mg/l - 96 h (OECD Test Guideline 203)

Remarks: (above the solubility limit in the test medium)

Toxicity to daphnia and other aquatic invertebrates

Immobilization EC50 - Daphnia magna (Water flea) - > 0.16 mg/l - 48 h Remarks: (ECOTOX Database)

Toxicity to algae

EC50 - Pseudokirchneriella subcapitata - > 0.003 mg/l - 72 h (OECD Test Guideline 201)

Toxicity to bacteria

static test NOEC - activated sludge - 1,000 mg/l - 3 h (OECD Test Guideline 209)

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12.2. Persistence and degradability

aerobic - Exposure time 29 d Result: 82 % - Readily biodegradable. (OECD Test Guideline 301B)

12.3. Bioaccumulative potential

Oncorhynchus mykiss (rainbow trout) - 100 d - 0.014 mg/l(Bis(2-ethylhexyl) phthalate)
Bioconcentration factor (BCF): 113 Remarks: Does not bioaccumulate.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

14. Transport information

DOT (US) UN number: 3082

Class: 9

Packing group: III

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Bis(2-ethylhexyl) phthalate)

Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG Not dangerous goods

IATA Not dangerous goods

15. Regulatory information

SARA 302 Components

This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:
Bis(2-ethylhexyl) phthalate CAS-No. 117-81-7

SARA 311/312 Hazards

Chronic Health Hazard

Massachusetts Right to Know Components

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No components are subject to the Massachusetts Right to Know Act.

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The opinions expressed are those of qualified experts within ComStar International Inc. We believe that the information contained is current as of the date of the Safety Data Sheet. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of ComStar International Inc., it is the user's obligation to determine the conditions of safe use of the product.

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