

Wheel Assembly Lubricants for Resilient Wheels

Purpose

In some cases, Penn Machine Co. (PMC) has become aware of assembly lubricants being used in the assembly process of resilient wheels that are damaging to the rubber blocks. The purpose of this service bulletin is to raise the awareness of the importance of using the proper lubricant when assembling resilient wheels.

Assembly Lubricant

When a resilient wheel is assembled, a lubricant must be used. This lubricant must be approved by PMC to maintain the integrity of the wheel and to keep the warranty (if applicable) valid. If you are unsure of the assembly lubricant you use, please contact PMC for clarification at **724.459.0302**.

The approved lubricants for resilient wheels are:

- Bonalin Gold (PMC p/n 00702045)
- Murphy's Tire and Tube Mounting*

A copy of the MSDS for each of these products is attached to this Service Bulletin. Other lubricants must not be used.

*Murphy's Tire and Tube Mounting Compound is a similar formula to the discontinued "Murphy's Oil Soap" gel. The manufacturer, JTM Products, identifies this product as "#506 Soft Amber Industrial Soap."

NOTE: IN THE PAST, PMC APPROVED THE USE OF OTHER LUBRICANTS. BECAUSE MANY SOAPS ARE CHANGING THEIR FORMULAS TO BECOME MORE "GREEN," OR FOR OTHER REASONS, PMC WILL NO LONGER TRACK DIFFERENT SOAPS. WE DO, HOWEVER, TRACK THE PRODUCTS WE SELL, AND WILL CHANGE, IF NECESSARY.

Some of the recommended lubricants need to be diluted before use. The "ideal" ratio varies slightly with environmental conditions.



Service Bulletin 014 Rev 4, May 2018

Temperature & Humidity

You may need to experiment to determine the best ratio for your wheels. Too much lubricant can lead to tire slippage, and too little lubricant will make assembling the wheel difficult. Below are approximate mixture ratios for each lubricant:

- Bonalin Gold -- 5 parts water to 1 part soap
- Murphy's -- 3 parts water to 1 part soap

Action

Wheels are safety-critical, and the proper ratio of assembly lubricant and mixture is necessary to maintain the wheels' integrity. Rubber Blocks are sensitive to chemicals and must only come in contact with approved assembly lubricants. Check to see which assembly lubricant you are using, and immediately stop using and discard any lubricant that is not Bonalin Gold or Murphy's Tire and Tube Mounting Compound.

If you have any questions regarding this Service Bulletin, please contact Penn Machine at **724.459.0302** or pmcsales@pennmach.com











PENN MACHINE COMPANY

310 Innovation Drive • Blairsville, PA 15717 • 724.459.0302 pmcsales@pennmach.com





Page 1 of 8

Service Bulletin 014

Attachment A - MSDS Bonalin Gold

Safety data sheet according to 1907/2006/EC, Article 31

Version: 9, 0 Revision: 14.09.2015 Printing date: 14.09.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· Trade name: Schmierseife LIGA GOLD SPEZ.-GLM.LIGA GOLD SPEZ.-GLM.LIGA GOLD M **GLEITMITTEL GOLD**

- · 1.2 Relevant identified uses of the substance or mixture and uses advised against: -
- · Application of the substance / the preparation:

Lubricant

Cleaning material / Detergent

Separating agent

- · Uses advised against -
- · 1.3 Details of the supplier of the safety data sheet
- · Supplier/Manufacturer: Peter Greven GmbH & Co. KG Peter-Greven-Str. 20-30 53902 Bad Münstereifel Germany

Tel.: +49-2253-313-0 Fax: +49-2253-313-134

- Email competent person: sds@kft.de
- Information department: KFT-Chemieservice
- 1.4 Emergency telephone number:

National Poison Information Service (NPIS)

24 hour national number

professionals only

0844 892 0111

National Health Service (NHS)

24 hour national number

consumer

England and Scotland: 111

Wales: 0845 46 47

Northern Ireland: call your local General Practitioner

Call 999 if there is a life-threatening incident.

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008 The product is not classified according to the CLP regulation.

Tel.: +49-6155-86829-22

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008 Void
- Hazard pictograms Void
- Signal word Void
- · Hazard statements Void
- · Additional information:
- Safety data sheet available on request.
- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable



Page 2 of 8

Service Bulletin 014

Attachment A - MSDS Bonalin Gold

Safety data sheet according to 1907/2006/EC, Article 31

Version: 9. 0 Revision: 14.09.2015 Printing date: 14.09.2015

Trade name: Schmierseife LIGA GOLD

SPEZ.-GLM.LIGA GOLD SPEZ.-GLM.LIGA GOLD M **GLEITMITTEL GOLD**

(Contd. of page 1) · vPvB: Not applicable

SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures
- Description: Aqueous preparation of potassium soap based on special native fatty acids; filler
- Dangerous components:

CAS: 584-08-7 potassium carbonate

<3%

EINECS: 209-529-3 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 Regulation (EC) No 648/2004 on detergents / Labelling for contents:

≥ 30%

perfumes

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information:

Change soiled clothing.

- If symptoms persist or in case of doubt, seek medical advice.
- · After inhalation: Inhalation of product is unlikely.
- After skin contact:

Wash with water and soap and rinse with plenty of water.

If symptoms persist, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water.

If symptoms persist, consult a doctor.

After swallowing:

Rinse mouth with water.

Spit liquid out again.

In case of unintentional swallowing of larger quantities or if any symptoms occur seek medical treatment.

Never give anything by mouth to an unconscious person.

Do not induce vomiting.

If swallowed or in case of vomiting there is the risk of aspiration due to formation of foam.

- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed Symptomatic treatment

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire fighting measures that suit the environment.

· For safety reasons unsuitable extinguishing agents: No data available

· 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

Potassium oxides



Page 3 of 8

Service Bulletin 014

Attachment A - MSDS Bonalin Gold

Safety data sheet according to 1907/2006/EC, Article 31

Printing date: 14.09.2015 Version: 9. 0 Revision: 14.09.2015

Trade name: Schmierseife LIGA GOLD SPEZ.-GLM.LIGA GOLD SPEZ.-GLM.LIGA GOLD M GLEITMITTEL GOLD

(Contd. of page 2)

· 5.3 Advice for firefighters

· Protective equipment: Wear self-contained respiratory protective device.

· Additional information:

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Avoid contact with eyes and skin.

Particular danger of slipping on leaked/spilled product.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Do not allow to penetrate the ground/soil.

· 6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Clean the affected area carefully; suitable cleaners are:

Warm water

Make sure to recycle or dispose of in suitable receptacles.

6.4 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.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Avoid contact with eyes and skin.

- Information about protection against explosions and fires: Observe the general rules of industrial fire protection.
- 7.2 Conditions for safe storage, including any incompatibilities

Storage:

- · Requirements to be met by storerooms and receptacles: Store at ambient temperatures and under dry conditions.
- Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from feed.

- · Further information about storage conditions: Protect from frost.
- Storage class: 11 Combustible solids
- · 7.3 Specific end use(s) No further relevant information available

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see section 7.
- : 8.1 Control parameters
- Components with limit values that require monitoring at the workplace:
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional Information: The lists that were valid during the creation were used as basis.



Page 4 of 8

Service Bulletin 014

Attachment A - MSDS Bonalin Gold

Safety data sheet according to 1907/2006/EC, Article 31

Version: 9. 0 Revision: 14.09.2015 Printing date: 14.09.2015

Trade name: Schmierseife LIGA GOLD

SPEZ.-GLM.LIGA GOLD SPEZ.-GLM.LIGA GOLD M **GLEITMITTEL GOLD**

(Contd. of page 3)

- 8.2 Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:

The following instructions regarding the protective equipment refer to the industrial use of larger quantities.

The usual precautionary measures should be adhered to when handling chemicals.

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Avoid contact with eyes and skin.

Use skin protection cream for skin protection.

- Breathing equipment: Under normal conditions of use not required
- Protection of hands:

Chemical resistant gloves (EN 374)

Alkaline resistant gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

Check protective gloves prior to each use for their proper condition.

Prior to contact with the watersoluble substance/product/preparation, apply waterinsoluble skin-protecting agent (fat-containing film former or W/O-emulsions).

The glove material has to be impermeable and resistant to the product/substance/preparation.

Selection of the glove material in consideration of the penetration times, rates of diffusion and the degradation

After use of gloves apply skin-cleaning agents and skin cosmetics.

Material of gloves:

Natural rubber, NR

Polychloroprene rubber (CR)

Nitrile rubber, NBR

Butyl rubber, BR

Fluorocarbon rubber (FKM)

The selection of suitable gloves depends upon the material, and also upon the quality of the gloves. The degree of protection will vary 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:

≥480 min. natural rubber (0.5 mm)

≥480 Min. (Polychloropren 0.5 mm)

≥480 min nitrile rubber (0.35 mm) ≥480 Min. Butyl-rubber (0.5 mm)

≥480 Fluorocarbon rubber (0.4 mm)

The exact penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses

· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- **General Information:**

Appearance:

Form: Colour: Odour:

Pasty Yellow

Odour threshold:

Soapy Not determined



Page 5 of 8

Service Bulletin 014

Attachment A - MSDS Bonalin Gold

Safety data sheet according to 1907/2006/EC, Article 31

Printing date: 14.09.2015 Version: 9. 0 Revision: 14.09.2015

Trade name: Schmierseife LIGA GOLD SPEZ.-GLM.LIGA GOLD SPEZ.-GLM.LIGA GOLD M GLEITMITTEL GOLD

		(Contd. of page
pH-value at 20 °C:	11.1-11.4	
Change in condition: Melting point/Melting range: Boiling point/Boiling range: Cloud point / clarification point:	Not determined Not determined < 10 °C	
Flash point:	Not applicable	7555 HEESEN AT 11
Flammability (solid, gaseous):	Not determined	
Ignition temperature:	Not determined	
Decomposition temperature:	Not determined	- 5 E 7947
Self ingnition temperature:	Product is not self-igniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits: Lower: Upper:	Not applicable Not applicable	
Vapour pressure:	Not determined	
Density at 20 °C: Relative density: Vapour density: Evaporation rate: Dissociation constant pKa	~ 1 g/cm³ (DIN 53 243) Not determined Not determined Not determined Not determined Not determined	
Solubility in / Miscibility with Water:	Soluble	
Partition coefficient (n-octanol/wate	r): Not determined	2,
Viscosity: dynamic: kinematic: 9.2 Other information	Not determined Not determined Soluble in alcohol	

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available
- 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications

To avoid thermal decomposition do not overheat.

- 10.3 Possibility of hazardous reactions No dangerous reactions known
- · 10.4 Conditions to avoid No further relevant information available

10.5 Incompatible materials:

Oxidants

Acids



Page 6 of 8

Service Bulletin 014

Attachment A - MSDS Bonalin Gold

Safety data sheet according to 1907/2006/EC, Article 31

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Revision: 14.09.2015

Trade name: Schmierseife LIGA GOLD SPEZ.-GLM.LIGA GOLD SPEZ.-GLM.LIGA GOLD M GLEITMITTEL GOLD

10.6 Hazardous decomposition products:

No hazardous decomposition products if instructions for storage and handling are followed

(Contd. of page 5)

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- · Acute toxicity
- · LD/LC50 values that are relevant for classification: No toxicity data are available for the product itself.
- Primary irritant effect:
- · 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 or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):
- · 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 if swallowed or in case of vomiting there is the risk of aspiration due to formation of foam.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: Presently there are no ecotoxicological values available.
- · 12.2 Persistence and degradability No further relevant information available
- · 12.3 Bioaccumulative potential No further relevant information available
- · 12.4 Mobility in soil No further relevant information available
- · Additional ecological information:
- · COD-value: ~ 1200 mg O2/g
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous to water

According to appendix 4 of VwVwS dated 17.05.1999 (German regulation)

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Danger to drinking water is possible if large quantities leak into the ground or into water course.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable
- · vPvB: Not applicable
- 12.6 Other adverse effects No further relevant information available

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation:

Must be recycled or disposed of according to the regulations. Waste has to be classified according to the European Waste Catalogue based on the identification of the waste generating source.

· European waste catalogue:

07 00 00 WASTES FROM ORGANIC CHEMICAL PROCESSES



Page 7 of 8

Service Bulletin 014

Attachment A - MSDS Bonalin Gold

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Printing date: 14.09.2015 Version: 9. 0 Revision: 14.09.2015

Trade name: Schmierseife LIGA GOLD

SPEZ.-GLM.LIGA GOLD SPEZ.-GLM.LIGA GOLD M GLEITMITTEL GOLD

(Contd. of page 6)

07 06 00 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics 07 06 99 wastes not otherwise specified

- · Uncleaned packagings:
- · Recommendation:

Disposal must be made according to official regulations.

Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

SECTION 14: Transport information	
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable
· 14.7 Transport in bulk according to Annex II of Mathe IBC Code	rpol and Not applicable
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · National regulations
- · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Reasons for amendments: EC Regulation 453/2010 Information on formulation



Page 8 of 8

Service Bulletin 014

Attachment A - MSDS Bonalin Gold

Safety data sheet according to 1907/2006/EC, Article 31

Revision: 14.09.2015 Printing date: 14.09.2015 Version: 9, 0

Trade name: Schmierseife LIGA GOLD

SPEZ.-GLM.LIGA GOLD SPEZ.-GLM.LIGA GOLD M **GLEITMITTEL GOLD**

(Contd. of page 7)

Classifcation CLP

Labelling

General revision

Replaces version dated: 12.06.2015

Relevant phrases

As mentioned in section 3 of the safety data sheet (not relevant for labelling of the product)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Department issuing MSDS:

KFT Chemieservice GmbH

Im Leuschnerpark. 3 64347 Griesheim

Postfach 1451 64345 Griesheim

Germany

Phone: +49 6155 86829-0 Fax: +49 6155 86829-25

Safety Data Sheet Service: +49 6155 86829-22

· Contact: Rebecca Hiltrop

Abbreviations and acronyms:

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Reglement international concernant te transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of

Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

INTIA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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)
LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic

PB1: Persistent, Bloaccumulative and Toxic
VPVB: very Persistent and very Bloaccumulative
Skin Init. 2: Skin corrosion/initation, Hazard Category 2
Eye Init. 2: Serious eye damage/eye kritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Sources: Information provided by the manufacturer

* Data compared to the previous version altered.

Changes have been made to sections marked with a *, as compared to the previous version.



Page 1 of 8

Service Bulletin 014

Attachment B - Murphy's Tire and Tube Mounting Compound

1. IDENTIFICATION

GHS Product Identifier

Product Name Murphy's Concentrated Tire and Tube Mounting Compound

Other Means of Identification

SDS#

Chemical Formula 93-11LNF or 2006-5

Other Information

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Tire Lubricant

Details of the Supplier of the Safety Data Sheet

Supplier Address

JTM Products, Inc. 31025 Carter Street Solon, OH 44139

Tel. 440-287-2302 800-229-6744 Fax. 440-287-3095

Emergency Telephone Number

Emergency Telephone Chemtel 1-800-255-3924

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered non-hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

GHS classification

Hazard categories: Skin Irritant 3

Eye irritation: Eye Irritant 2B

Label elements

Signal word: Warning



Page 2 of 8

Service Bulletin 014

Attachment B - Murphy's Tire and Tube Mounting Compound

Murphy's Concentrated Tire and Tube Mounting Compound Revision Date: 17-Oct-2014

Hazard statements

H316 Causes mild skin irritation.H320 Causes eye irritation.

Precautionary statements

P264 Wash skin thoroughly after handling.

P332+P313 If skin irritation occurs: Get medical advice/attention.

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Components

domponento		
CAS No.	Chemical Name	Quantity
7732-18-5	Water	60-70%
61788-65-6	Potassium salt of vegetable oil (soap)	25-35%
EINECS		
262-993-9		

Where range is displayed, the exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First Aid Measures

Inhalation Move to fresh air. If symptoms persist, call a physician

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Drink plenty of water. Rinse mouth. Never give anything by mouth

to an unconscious person. Call a physician or poison control center immediately

Skin Contact Wash off immediately with soap and water. If skin irritation persists, call a physician.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms

Direct contact with eyes may cause temporary irritation. Prolonged or repeated skin contact may cause irritation.

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Page 3 of 8

Service Bulletin 014

Attachment B - Murphy's Tire and Tube Mounting Compound

<u>Indication of any Immediate Medical Attention and Special Treatment Needed</u>

Note to Physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Non-flammable

Specific Hazards Arising from the Chemical

No information available.

Hazardous Combustion Products

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Avoid contact with the skin and the eyes. Evacuate personnel to safe areas. Use

personal protective equipment. Keep people away from and upwind of spill/leak.

Environmental Precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Do not flush into surface water or sanitary sewer system. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional

Ecological information

Methods and Material for Containment and Cleaning Up

Methods for Containment Dike to collect large liquid spills. Prevent leakage or spillage if safe to do so.

Methods for Cleaning Up Dam up. Soak up with inert absorbent material Place the bulk of any spilled material

into properly labeled containers. Rinse any remaining material to sewage treatment

facility. Clean up in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe

vapors or spray mist. Ensure adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Wash thoroughly after

handling. Do not take internally.



Page 4 of 8

Service Bulletin 014

Attachment B - Murphy's Tire and Tube Mounting Compound

Conditions for Safe Storage, Including any Incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled

containers. Keep out of the reach of children.

Incompatible Materials Strong oxidizing agents. Strong bases

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Appropriate Engineering Controls

Engineering Controls Eyewash stations Showers Ventilation systems.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection Wear approved safety goggles.

Skin and Body Protection Lightweight protective clothing. Chemical resistant gloves, if needed, to avoid

prolonged or repeated skin contact.

Respiratory Protection No special protective equipment required. If respirators are used, OSHA requires a

written respiratory program that includes at least: medical certification training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and

convenient, sanitary storage areas.

General Hygiene Considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is

recommended.

Control Parameters N.A.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State Gel

Appearance Clear gel Odor Bland

Color Amber **Odor threshold** Not determined

<u>Property</u> <u>Values</u> <u>Remarks - Method</u>

pH 11

Melting point/freezing point $< 0^{\circ}$ C/ $< 32^{\circ}$ F Boiling point/boiling range $> 104^{\circ}$ C/ $> 220^{\circ}$ F Flash point Non-flammable Evaporation rate Not applicable Flammability (solid, gas) Not determined



Page 5 of 8

Service Bulletin 014

Attachment B - Murphy's Tire and Tube Mounting Compound

Flammability Limits in Air

Upper Flammability LimitsNot applicableLower Flammability LimitsNot applicableVapor PressureNot applicableVapor DensityNot applicable

Specific Gravity 0.99

Water Solubility
Solubility in other Solvents
Partition Coefficient
Autoignition Temperature
Decomposition Temperature
Kinematic Viscosity
Not determined

Explosive Properties None **Oxidizing Properties** None

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions

Chemical Stability

Stable under recommended storage conditions

Possibility of Hazardous Reactions

None under normal processing

Conditions to Avoid

Contact with incompatible material

Incompatible Materials

Strong oxidizing agents

Hazardous Decomposition Products

Carbon oxides

11. TOXICOLOGICAL INFORMATION

Information on Likely Route of Exposure

Product Information

Inhalation Not a likely route of exposure

Eye ContactCauses eye irritationSkin ContactCauses mild skin irritationIngestionDo not taste or swallow

Symptoms Direct contact with eyes may cause temporary irritation. Prolonged or repeated

contact may dry skin and cause irritation



Page 6 of 8

Service Bulletin 014

Attachment B - Murphy's Tire and Tube Mounting Compound

Numerical Measures of Toxicity - Product

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral 72,000 mg/kg; Acute toxicity estimate mg/kg mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Persistence and Degradability

No information available.

Mobility

Not Determined.

Other Adverse Effects

Not Determined.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

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

regulations. Contact your supplier or a licensed contractor for detailed

recommendations.

Contaminated Packaging

Do not re-use empty containers. Disposal should be in accordance with applicable

regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT Not regulated IATA Not regulated IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA All ingredients appear on inventory

DSL/NDSL All components of this product are listed or are exempt

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

/ not available (N.A.)

ENCS - Japan Existing and New Chemical Substances/not available (N.A.)
 IECSC - China Inventory of Existing Chemical Substances/not available (N.A.)
 KECL - Korean Existing and Evaluated Chemical Substances/not available (N.A.)

PICCS - Philippines Inventory of Chemicals and Chemical Substances/not available (N.A.)



Page 7 of 8

Service Bulletin 014

Attachment B - Murphy's Tire and Tube Mounting Compound

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS – Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42): None known

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302): None Known

U.S. State Regulations

California Proposition 65

Diethanolamine < 0.25%

U.S. State Right-to-Know Regulations: Not applicable

U.S. EPA Label Information

EPA Pesticide Registration Number: Not Applicable

		10. OTHER INFORMATION			
NFPA Health Hazards Flammability Instability Special Hazards 1 0 0 Not determined	<u>NFPA</u>	Health Hazards 1	Flammability 0	Instability 0	Special Hazards Not determined

<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1	0	0	Not determined

16 OTHER INFORMATION

Issuance Date	18-Feb-2014
Revision Date	17-Oct-2014
Revision Note	New format



Page 8 of 8

Service Bulletin 014

Attachment B - Murphy's Tire and Tube Mounting Compound

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet