



A NuWave Solutions Company

SAFETY DATA SHEET Per OSHA HCS:

Date SDS Printed & Reviewed: 06/23/17

Last Formula Revision Date: 05/22/17

(SPL)

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER:

GALV-PEN-PLUS

OTHER MEANS OF IDENTIFICATION (FOR CHEMTREC): FORMULA # 18J001M0.3

RECOMMENDED USE OF THE CHEMICAL: LIQUID COATING

SUPPLIER DETAILS: MANUFACTURED BY:

GALV-PRO A NUWAVE SOLUTIONS COMPANY

31559 GROESBECK HWY.

FRASER, MI 48026

313-885-3452, 313-2685162

www.galv-pro.com

EMERGENCY 24-HOUR TELEPHONE NUMBERS:

Call CHEMTREC: within USA dial 1-800-424-9300 or outside USA dial +1-703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

HAZARD PICTOGRAMS:

Pics



GHS02 Flame, GHS07 Exclamation Mark, GHS08 Health Hazard

CLASSIFICATION OF THE SUBSTANCE OF MIXTURE:

Flammable Liquids, Category 2

Aspiration Hazard, Category 1

Acute Toxicity - Dermal, Category 4

Skin Corrosion/Irritation, Category 2

Serious Eye Damage/Eye Irritation, Category 2B

Acute Toxicity - Inhalation, Category 4

Specific Target Organ Toxicity - Single Exposure, Category 3

Specific Target Organ Toxicity - Single Exposure, Category 3

Carcinogenicity, Category 1A,1B / Reproductive Toxicity, Category 2

Specific Target Organ Toxicity - Repeated Exposure, Category 2

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 10.96%

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SIGNAL WORD: DANGER

HAZARD STATEMENTS:

H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H320 Causes eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H350 May cause cancer.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS:

GENERAL & PREVENTION:

P102 Keep out of reach of children.

P201 Obtain special instructions before use.

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

P210 Keep away from heat/sparks/open flames/other ignition sources. No smoking.

P233 Keep container tightly closed when not in use.

P261-1 Avoid breathing vapor.

P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear eye protection.

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RESPONSE:

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P302+P350 IF ON SKIN: Wash with plenty of soap and water.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep comfortable for breathing.

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PRODUCT IDENTIFIER:

GALV-PEN-PLUS GMP-300

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do

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

P312 Call a POISON CENTER/doctor if you feel unwell.

P331 Do NOT induce vomiting.

P337+P313 If eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agent

STORAGE:

P403+P233 Store in a well-ventilated place. Keep container tightly closed when not in use.

P403+P235 Store in a well-ventilated place. Keep cool.

DISPOSAL:

P501 Dispose of contents/container in accordance with local/regional/national regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS



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COMPONENT CAS# % by WT.

1 ZINC DUST 7440-66-6 30-36

2 SOLVENT NAPHTHA 64742-95-6 15-21

3 *TOLUENE 108-88-3 10-16

4 PETROLEUM SOLVENT 64742-47-8 10-16

5 SOLVENT NAPHTHA, LIGHT 64742-49-0 8-10

6 ALUMINUM FLAKE 7429-90-5 1-3

7 N-BUTYL ACETATE 123-86-4 1-3

8 ZINC OXIDE 1314-13-2 1-3

9 XYLENE 1330-20-7 1-3

10 *ETHYLBENZENE 100-41-4 0.1-1

SECTION 4 - FIRST AID MEASURES

Inhalation: If inhaled: Move victim to fresh air and keep comfortable for breathing.

Skin Contact: If on skin: Wash with plenty of soap and water. Call a poison center/doctor if you feel unwell.

Remove contaminated clothing and wash before reuse.

Eye Contact: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting unless directed to do so by medical personnel.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

See Section 11: Toxicological Information and effects.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT REQUIRED:

Treat symptomatically.

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SECTION 5 - FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: CO₂ (Carbon Dioxide), dry chemical, or water fog.

Unsuitable Extinguishing Media: Water spray may be unsuitable. However if water is used fog nozzles are preferable.

Water may be used to cool closed containers to prevent pressure build-up.

Specific Hazards Arising From the Chemical: Closed containers exposed to heat from fire may build pressure and explode. Products of combustion may include, and are not limited to: oxides of carbon.

Special Protective Equipment and Precautions for Fire-Fighters: Full protective equipment including self-contained breathing apparatus should be used.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Prevent contamination of soil/ground, waterways, drains, and sewers.

Methods of Containment: Absorb spilled liquid in suitable material.

Methods for Clean-Up: Use spark-proof tools to sweep or scrape up, containerize, and dispose of properly.

Other Information: Ensure adequate ventilation.

SECTION 7 - HANDLING AND STORAGE

Precautions for Safe Handling:

Vapors may ignite explosively. Prevent buildup of vapors. Keep from sparks, heat, flame or other heat sources.

Do not smoke. Turn off pilot lights, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Do not puncture or incinerate/burn container. Keep container tightly closed while not in use.

Conditions for Safe Storage, Including Any Incompatibilities:



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Store in dry, well-ventilated area and in accordance with federal, state, and local regulations. Do not expose to heat or store at temperatures above 50 degrees C / 122 degrees F. If storing in cold temperatures, allow product to warm to room temperature before use. Keep container tightly closed and away from heat and sunlight when not in use.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

COMPONENT ACGIH TLV-STEL ACGIH TLV-TWA OSHA PEL-TWA

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PRODUCT IDENTIFIER:

GALV-PEN-PLUS

- 1 ZINC DUST NA mg/m³ NA mg/m³ NA mg/m³
- 2 SOLVENT NAPHTHA N/E 100 ppm 100 ppm
- 3 *TOLUENE N/E 50.0 ppm 200.0 ppm
- 4 PETROLEUM SOLVENT N/E N/E 400 ppm
- 5 SOLVENT NAPHTHA, LIGHT N/E 300 ppm 300 ppm
- 6 ALUMINUM FLAKE N/E 10 mg/m³ 15 mg/m³
- 7 N-BUTYL ACETATE 200 ppm 150 ppm 150 ppm
- 8 ZINC OXIDE NA mg/m³ 5 mg/m³ 5 mg/m³
- 9 XYLENE 150 ppm 100 ppm 100 ppm
- 10 *ETHYLBENZENE 125 ppm 100 ppm 100 ppm

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APPROPRIATE ENGINEERING CONTROLS: Provide adequate ventilation to keep air contamination below OSHA permissible exposure limits and ACGIH TLV exposure levels.



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EYE/FACE PROTECTION: Wear safety glasses with side shields. Have eye wash facilities immediately available.

SKIN PROTECTION: Wear chemical resistant gloves if contact is likely.

RESPIRATORY PROTECTION: Use NIOSH-approved air-purifying respirator with organic cartridge or canister if exposure cannot be controlled within applicable limits with ventilation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

COLOR: See product identification

ODOR: Solvent Odor

ODOR THRESHOLD: No Data Available

pH: No Data Available

FREEZING POINT: Not established (mixture)

BOILING POINT: 75 - 186 degrees C (167 - 367 degrees F)

FLASH POINT: less than 1 degree C (less than 34 degrees F), c.c.

EVAPORATION RATE: Slower than ether

UPPER FLAMMABILITY LIMIT: Not established (mixture)

LOWER FLAMMABILITY LIMIT: Not established (mixture)

VAPOR PRESSURE: Not established (mixture)

SPECIFIC GRAVITY: 1.288

SOLUBILITY (WATER): Negligible

VOC PERCENT BY WEIGHT: 51.41

HAPS PERCENT BY WEIGHT: 15.98

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SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: Will not occur.

CONDITIONS TO AVOID: Keep away from heat, sparks, and flames.

INCOMPATIBLE MATERIALS: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: by fire - Carbon Dioxide and Carbon Monoxide

SECTION 11: TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF ENTRY: Skin contact, Inhalation, Eye contact, Ingestion

SIGNS AND SYMPTOMS OF EXPOSURE:

Skin Contact: Signs/symptoms may include localized redness, itching, drying and cracking of skin.

Inhalation: Intentional concentration and inhalation may be harmful or fatal.

Eye Contact: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Ingestion: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Intentional concentration and ingestion of large amounts may be harmful or fatal.

TARGET ORGANS POTENTIALLY AFFECTED BY EXPOSURE:

Central nervous system, kidneys, lungs, liver, eyes, skin, brain, respiratory tract, urinary tract, reproductive system, cardiovascular system.

TOXICOLOGICAL DATA:

COMPONENT LD50 ORAL LD50 DERMAL LC50 INHALATION

1. ZINC DUST N/E N/E N/E
2. SOLVENT NAPHTHA N/E N/E N/E
3. *TOLUENE 5580 mg/kg (rat) 12267 mg/kg (rabbit) >20 mg/l (rat) 4 h
4. PETROLEUM SOLVENT N/E N/E N/E

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5. SOLVENT NAPHTHA, LIGHT N/E N/E N/E
6. ALUMINUM FLAKE N/E N/E N/E
7. N-BUTYL ACETATE >10,760 mg/kg (rat) >14,112 mg/kg rabbit >21 mg/l (rat) 4 h
8. ZINC OXIDE 7950 mg/kg (rat) N/E N/E
9. XYLENE >3523 mg/kg >4200 mg/kg >20 mg/L
10. *ETHYLBENZENE N/E N/E N/E

SECTION 12: ECOLOGICAL INFORMATION

No Data Available

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PRODUCT IDENTIFIER:

GALV-PEN-PLUS

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of container and its contents in accordance with federal, state, and local regulations.

Do not puncture, incinerate, or place container in trash compactor.

SECTION 14: TRANSPORTATION INFORMATION

GROUND (D.O.T./49 CFR)

UN I.D. Number: UN1263 Proper Shipping Name: PAINT

Transport Hazard Class: 3 Packing Group: II

Hazard Label: Limited Quantity (LTD QTY) label -- see 49 CFR 172.315

Shipping papers format: UN1263, PAINT, 3, II, LTD QTY

SPECIAL NOTE: If containers have less than 30ml (1 fl. oz.) flammable liquid, they may be exempt from 49 CFR - see 49 CFR 173.4 Small Quantity Exceptions

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Note that outer package needs statement "This package conforms to 49 CFR 173.4 for domestic highway or rail transport only."

AIR (IATA)

UN I.D. Number: UN1263 Proper Shipping Name: PAINT

Transport Hazard Class: 3 Packing Group: II

Hazard Label: LTD QTY label with "Y", and Flammable Liquid label

Packing Instruction: Y341 (Note 1L maximum per package!)

Shipping papers format: UN1263, PAINT, 3, II

SPECIAL NOTE: If containers have less than 30ml (1 fl. oz.), they may qualify to be shipped as Excepted Quantity - see IATA 2.6 for details.

WATER (IMDG)

UN I.D. Number: UN1263 Proper Shipping Name: PAINT

Transport Hazard Class: 3 Packing Instruction: P001

Packing Group: II Hazard Label: LTD QTY label, see IMDG 3.4.5.1

EmS: F-E, S-E Stowage and Segregation: Category B

Shipping papers format: UN1263, PAINT, 3, II, (1 C c.c.), LTD QTY

SPECIAL NOTE: If containers have less than 30ml (1 fl. oz.), they may qualify to be shipped as an Excepted Quantity, see IMDG 3.5.1 for details.

No component of this product is a listed Marine Pollutant (49 CFR 172, 101, Appendix B).

SECTION 15: REGULATORY INFORMATION

International Chemical Inventory

All components of this product are listed on or exempt from the following inventories:

TSCA (United States), CEPA/DSL (Canada), AICS (Australia), IECSC (China)

SARA Section 313 Toxic Chemicals:

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Saint Clair Shores Michigan

Phone: 313-885-3452/ After Hours Technical Hotline 313-268-5162

www.galv-pro.com / info@galv-pro.com



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ZINC DUST 7440-66-6, *TOLUENE 108-88-3, ALUMINUM FLAKE 7429-90-5, XYLENE 1330-20-7,
*ETHYLBENZENE

100-41-4

Chemicals listed above are subject to the SARA reporting requirements under 40 CFR 372.45(c)(5).

California Prop65 Chemicals:

SOLVENT NAPHTHA 64742-95-6, *TOLUENE 108-88-3, *ETHYLBENZENE 100-41-4

*California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

SECTION 16: OTHER INFORMATION

REVISION DATE: 05/22/17

HMIS & NFPA Hazard Scale:

0=minimal, 1=slight, 2=moderate, 3=serious, 4=severe

HMIS(American Coatings Association's Hazardous Material Identification System):

Health = 2 Flammability = 3 Physical Hazard = 1

NFPA 704(National Fire Protection Association's Hazard Identification Ratings System):

Health = 2 Flammability = 3 Instability = 1

This SDS is based on information believed to be reliable and accurate. Because of changing reporting requirements and other variables, it is impossible to guarantee with complete accuracy all the information contained in this document. It is the responsibility of the user to determine proper personal protection based on actual condition of use and to comply with all federal, state, and local laws