

Safety Data Sheet

Issue date 13-Aug-2015 Version 1

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product Identifier

Product name LOCKFORMER GALV-OFF

Chemical name 7-4357-1

Other means of identification

Product code FG 431-2241-3 Synonyms Galv-Off

Recommended use of the chemical and restrictions on use

Recommended Use Remover of galvanizing buildup.

Uses advised againstSee directions for use on product's label.

Details of the supplier of the safety data sheet

Supplier AddressManufacturer AddressMestek MachineryChase Products Co.5480 6th Street SW2727 Gardner RoadCedar Rapids, IA 52404Broadview, IL 60155319-364-9181708-273-1121

Emergency Telephone Number

Company Phone Number 708-865-1000 **24 Hour Emergency Phone Number** 1-800-255-3924

2. Hazards Identification

Classification

Acute toxicity - Inhalation (Gases)	Category 3
Acute toxicity - Inhalation (Vapors)	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
carcinogenicity	Category 1A
Aspiration toxicity	Category 1
FLAMMABLE AEROSOLS	Category 1
Gases Under Pressure	liquefied gas

Label Elements

EMERGENCY OVERVIEW

DANGER

hazard statements

Toxic if inhaled May cause cancer

May be fatal if swallowed and enters airways EXTREMELY FLAMMABLE AEROSOL

Contains gas under pressure; may explode if heated



Appearance Greenish-blue liquid

Physical State Aerosol

Odor Petroleum hydrocarbon odor.

Precautionary Statements - Prevention

Obtain special instructions before use

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

Wear protective gloves, protective clothing, eye protection and face protection.

Avoid breathing fumes, mist, vapors or spray.

Use only outdoors or in a well-ventilated area

Keep away from heat, sparks, open flames and hot surfaces. — No smoking

Do not spray on an open flame or other ignition source

Pressurized container: Do not pierce or burn, even after use

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Specific treatment: See additional cautionary statements on this label.

Call a POISON CENTER or doctor/physician

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF SWALLOWED: Immediately call a POISON CENTER or doctor

Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other Information

- Toxic to aquatic life with long lasting effects
- · Toxic to aquatic life

No information available

3. Composition/information on Ingredients

SynonymsGalv-Off.Chemical FamilyMIXTURES.Formula7-4357-1

Chemical name	CAS No	weight-%	Trade secret
Hydrotreated Heavy Naphthenic Oil	64742-52-5	35-40	*
Petroleum distillates, hydrotreated light	64742-47-8	35-40	*
Propane	74-98-6	15-20	*
n-butane	106-97-8	5-10	*
Ethylbenzene	100-41-4	<1	*

^{*} The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First aid measures

FIRST AID MEASURES

Eye Contact Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact

lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control

center or doctor for treatment advice.

Skin contact Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20

minutes. Call a poison control center or doctor for treatment advise.

inhalation If overcome by vapor, move person to fresh air. If person is not breathing, call 911 or an

ambulance, then provide artifical respiration, preferably mouth-to-mouth, if possible. Call a

poison control center or doctor for further treatment advise.

INGESTION Ingestion from an aerosol product is unlikely to occur. Contains petroleum distillates.

Harmful if swallowed. If accidentally swallowed, do not induce vomiting, call physician

immediately.

Most important symptoms and effects, both acute and delayed

Symptoms Acute: Prolonged inhalation of concentrated vapor or mist may cause headaches, dizziness

and nausea. Prolonged and repeated contact with skin may cause irritation and reddening.

Contact with eyes causes irritation.

Indication of any immediate medical attention and special treatment needed

Note to physicians Contains petroleum distillates, do not induce vomiting because of aspiration neumonia

hazard.

5. Fire-fighting measures

Suitable extinguishing media

Dry chemical, CO2 or water spray.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

This product is under pressure. Water spray may be used to cool cans in the vicinity of fire or excessive heat to prevent the explosion of the cans.

Hazardous combustion products Thermal decomposition may release carbon monoxide and carbon dioxide.

Explosion data

Sensitivity to Mechanical Impact Contents under pressure. This product is extremely flammable. Keep away from heat,

sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static

electricity).

Sensitivity to Static Discharge Keep away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric

motors and static electricity).

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

prolonged occupational over exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. To avoid breathing vapor or spray mist open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air or wear an appropriate, properly

fitted respirator (NIOSH approved), or leave the area. NOTE: Follow respirator

manufacturer's instructions carefully for respirator use.

For emergency responders

Remove all sources of ignition.

Environmental Precautions

Environmental PrecautionsSee Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Provide adequate ventilation to area being treated. Soak up spills with chemically inert,

absorbent material.

Methods for cleaning upClean contaminated surface thoroughly.

7. Handling and Storage

Precautions for safe handling

Advice on safe handling Handle as an extremely flammable material. Avoid contact with skin, eyes and clothing.

Store cans in a cool, dry place away from heat and open flame.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric

motors and static electricity). AEROSOL STORAGE LEVEL III (NFPA-30B).

Incompatible Materials Avoid heat, open flame and contact with strong acids, strong bases and strong oxidizers.

8. Exposure Controls/Personal Protection

Control parameters

Exposure guidelines See occupational exposure limits listed below.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Propane 74-98-6	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m³ (vacated) TWA: 1000 ppm (vacated) TWA: 1800 mg/m³	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m³
n-butane 106-97-8	STEL: 1000 ppm	(vacated) TWA: 800 ppm (vacated) TWA: 1900 mg/m ³	TWA: 800 ppm TWA: 1900 mg/m ³
Xylenes (o-, m-, p- isomers) 1330-20-7	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m³ (vacated) STEL: 150 ppm (vacated) STEL: 655 mg/m³	-
Ethylbenzene 100-41-4	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m³ (vacated) STEL: 125 ppm (vacated) STEL: 545 mg/m³	IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m³ STEL: 125 ppm STEL: 545 mg/m³

Appropriate engineering controls

Engineering controlsUse with adequate general or local exhaust ventilation. Use in a well-ventilated area only.

Individual protection measures, such as personal protective equipment

Eye/face Protection Conventional eyeglasses to guard against splashing.

Skin and Body Protection Neoprene or vinyl gloves required.

Use in well-ventilated area ONLY. NOTICE: Reports have associated repeated and Respiratory protection

> prolonged occupational over exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. To avoid breathing vapor or spray mist open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air or wear an appropriate, properly

fitted respirator (NIOSH approved), or leave the area. NOTE: Follow respirator

manufacturer's instructions carefully for respirator use.

Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Do not General hygiene considerations

eat, drink or smoke when using this product.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State Aerosol

Greenish-blue liquid **Appearance** Odor Petroleum hydrocarbon

odor.

No information available Color Greenish-blue liquid Odor threshold

Property Values Remarks • Method pН Not applicable Solvent-based product. Melting point/freezing point Not applicable No information available

Naphthenic Distillated 550 °F/288 °C Boiling point/boiling range No information available Not Available. This is an aerosol No information available Flash Point

> product for which Flame Projection is over 18 inches with 8 in flashback. Temperatures above 120 F may cause

cans to burst.

Evaporation Rate Faster than butyl acetate No information available Flammability (solid, gas)

No information available No information available

Upper flammability limits Not available **Lower Flammability Limit** Not available

No information available Vapor pressure

Vapor Density No information available **Relative Density** 0.815 concentrate No information available Water solubility No information available Insoluble in water No information available

Solubility in other solvents Partition coefficient No information available **Autoignition Temperature** No information available

Decomposition temperature No information available Kinematic viscosity No information available No information available **Dynamic viscosity**

Explosive properties No information available **Oxidizing properties** No information available

Other Information

Flammability Limits in Air

No information available Softening point Molecular weight No information available

VOC content (%) 62.75 **Density** 6.79 b/gal

Bulk Density No information available

10. Stability and Reactivity

Reactivity

Not applicable no data available

Chemical stability

Stable.

Possibility of hazardous reactions

Temperatures above 130 °F may cause cans to burst with force.

hazardous polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Temperatures above 122 °F (50 °C).

Incompatible Materials

Avoid heat, open flame and contact with strong acids, strong bases and strong oxidizers.

Hazardous decomposition products

Thermal decomposition may yield gases like carbon monoxide and carbon dioxide.

11. Toxicological Information

Information on likely routes of exposure

Product Information This product has not been tested as whole. See below for information on ingredients.

inhalation no data available.

Eye Contact no data available.

Skin contact no data available.

INGESTION no data available.

Chemical name	Oral LD50	dermal LD50	Inhalation LC50
Petroleum distillates, hydrotreated light 64742-47-8	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat)4 h
Propane 74-98-6	-	-	= 658 mg/L (Rat) 4 h
n-butane 106-97-8	-	-	= 658 g/m³(Rat)4 h
Ethylbenzene 100-41-4	= 3500 mg/kg (Rat)	= 15400 mg/kg(Rabbit)	= 17.2 mg/L (Rat) 4 h

Information on toxicological effects

Symptoms Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

tiredness, nausea and vomiting.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation May cause skin irritation and reddening after prolonged or repeated contact with skin.

Serious eye damage/eye irritation Irritating to eyes.

irritation May cause skin and eye irritation.

corrosivity Not applicable.

sensitizationNo information available.Germ Cell MutagenicityNo information available.

carcinogenicityThe table below indicates whether each agency has listed any ingredient as a carcinogen.

Contains less than 1% ethyl benzene; IARC has evaluated and classified ethyl benzene as a possibly human carcinogen (group 2B) based on sufficient evidence of carcinogenicity in

animals, but inadequate evidence for cancer in exposed humans.

Chemical name	ACGIH	IARC	NTP	OSHA
Ethylbenzene	A3	Group 2B		X
100-41-4				

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
No information available.

Chronic Toxicity Xylene has been associated with kidney and liver disorders. IARC has evaluated and

classified ethyl benzene as a possibly human carcinogen (group 2B) based on sufficient evidence of carcinogenicity in animals, but inadequate evidence for cancer in exposed

humas.

Aspiration Hazard No information available.

Numerical measures of toxicity - Product Information

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

ATEmix (oral) 13605 mg/kg
ATEmix (dermal) 5442 mg/kg
ATEmix (inhalation-gas) 933 mg/l
ATEmix (inhalation-dust/mist) 4.1 mg/l
ATEmix (inhalation-vapor) 14 mg/l

12. Ecological Information

This product contains chemicals which are listed as a marine pollutants according to DOT.

ecotoxicity

25% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Hydrotreated Heavy Naphthenic Oil 64742-52-5		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50
Petroleum distillates, hydrotreated light 64742-47-8		45: 96 h Pimephales promelas mg/L LC50 flow-through 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static 2.2: 96 h Lepomis macrochirus mg/L LC50 static		4720: 96 h Den-dronereides heteropoda mg/L LC50
Ethylbenzene 100-41-4	4.6: 72 h Pseudokirchneriella subcapitata mg/L EC50 1.7 - 7.6: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 438: 96 h Pseudokirchneriella subcapitata mg/L EC50 2.6 - 11.3: 72 h Pseudokirchneriella subcapitata mg/L EC50 static	11.0 - 18.0: 96 h Oncorhynchus mykiss mg/L LC50 static 4.2: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 9.6: 96 h Poecilia reticulata mg/L LC50 static 32: 96 h Lepomis macrochirus mg/L LC50 static 9.1 - 15.6: 96 h Pimephales promelas mg/L LC50 static 7.55 - 11: 96 h Pimephales promelas mg/L LC50 flow-through	EC50 = 9.68 mg/L 30 min EC50 = 96 mg/L 24 h	1.8 - 2.4: 48 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical name	Partition coefficient
Propane 74-98-6	2.3
n-butane 106-97-8	2.89
Ethylbenzene 100-41-4	3.118

Other adverse effects No information available

13. Disposal Considerations

Waste treatment methods

Disposal of wastesDispose of in accordance with federal, state and local regulations.

Contaminated packaging Pressurized container: Do not pierce or burn, even after use. Do not puncture or incinerate

container. If empty: Place in trash or offer for recycling if available. If partly filled: Call your

local solid waste agency for disposal instructions.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Ethylbenzene		Included in waste stream:		
100-41-4		F039		

Chemical name	California Hazardous Waste Status
Ethylbenzene	Toxic
100-41-4	Ignitable

14. Transport Information

DOT Limited quantity (LQ) Remover of galvanizing buildup.

UN/ID no UN1950

Proper Shipping Name Limited quantity (LQ)

Hazard Class 2

Marine pollutant This product contains chemicals which are listed as a marine pollutants according to DOT.

15. Regulatory information

International Inventories

TSCA All ingredients of this product are listed or are excluded from listing under the U.S. Toxic

Subtances Control Act (TSCA) Chemical Substance Inventory.

DSL All ingredients are listed or are excluded from listing on the DSL.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372. This information must be included in all SDSs that are copied and distributed for this material.

Chemical name	CAS No	weight-%	SARA 313 - Threshold Values %
Ethylbenzene - 100-41-4	100-41-4	<1	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard yes

Chronic Health Hazard yes Fire Hazard yes 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)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ethylbenzene 100-41-4	1000 lb	Х	X	Х

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)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ethylbenzene	1000 lb		RQ 1000 lb final RQ
100-41-4			RQ 454 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65	
Ethylbenzene - 100-41-4	carcinogen	

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Propane	X	X	X
74-98-6			
n-butane	X	X	X
106-97-8			
Ethylbenzene	X	X	X
100-41-4			

U.S. EPA Label information

EPA Pesticide registration number Not applicable

16. Other information

NFPA **Health Hazards** 2 Flammability 4 Instability 1 Physical and chemical

properties Not

Personal Protection B

applicable

Health Hazards 2* **HMIS** Flammability 4 Physical Hazards 1

See Section 11: TOXICOLOGICAL INFORMATION Chronic Hazard Star Legend

Prepared by Regulatory Department

Issue date 13-Aug-2015

Revision note

This SDS supersedes a previous MSDS dated November 24, 2010.

Disclaimer

The information provided in this Material 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