

SAFETY DATA SHEET.

Issuing date 17-Jun-2015***

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Version 1.01

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name 5537 RADIATOR FLUSH

Recommended use of the chemical and restrictions on use

Product code F01961

Product Type Non-flammable liquid***
Synonyms None

Supplier's details

Recommended Use Radiator Flush.
Uses advised against No information available

Manufactured For: Imperial Supplies LLC 789 Armed Forces Drive P.O. Box 11008 Green Bay, WI 53407-1008 1-800-558-2808	Manufacturer American Jetway Corporation 34136 Myrtle Street Wayne, MI 48184-0126 Phone:(734) 721-5930***
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Emergency telephone number
Chemical Emergency Phone Number CHEMTREC: 1-800-262-8200 ID 1195 (UNITED STATES)***

2. HAZARDS IDENTIFICATION**Classification**

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

**GHS Label elements, including
precautionary statements****Emergency Overview****DANGER****Hazard Statements**

Causes severe skin burns and eye damage.



Appearance Clear

Physical state Liquid

Odor Mild***

Precautionary Statements - Prevention

Do not breathe dust, fume, gas, mist, vapors, spray.

Wash face, hands and any exposed skin thoroughly after handling.

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

Precautionary Statements - Response

If exposed: call a POISON CENTER or doctor/physician.

Specific treatment (see first aid on this label).

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If exposed: call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water, shower

Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If exposed: call a POISON CENTER or doctor/physician.

Do NOT induce vomiting.

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

Dispose of contents, container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC)

None

Other information

0% of the mixture consists of ingredient(s) of unknown toxicity.***

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %*
SULFAMIC ACID***	5329-14-6	5-15

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

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice	Avoid contact with eyes, skin, and clothing. Avoid breathing vapors, mist, or gas.***
Eye contact	Immediately flush with plenty of water for at least 15 minutes. After initial flushing, remove any contact lenses and continue flushing. Call a physician immediately.***
Skin contact	If on skin (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. If skin irritation persists, call a physician.***
Inhalation	Move to fresh air. If not breathing, give artificial respiration. If breathing has stopped, contact emergency medical services immediately.***
Ingestion	Call a physician or Poison Control Center immediately. Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Risk of product entering the lungs on vomiting after ingestion.***

Most important symptoms/effects, acute and delayed

Main Symptoms Causes severe skin burns and serious eye damage.***

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

Notes to physician Treat symptomatically.***

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water fog.Dry chemical. Foam.Carbon dioxide (CO2). Cool containers/tanks with water spray.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire. Keep away from sources of ignition - No smoking.***

Specific hazards arising from the chemical

Keep product and empty container away from heat and sources of ignition.***

Explosion Data

Sensitivity to Mechanical Impact none.

Sensitivity to Static Discharge Yes.***

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

Personal precautions Use with adequate ventilation to keep the exposure levels below the OELS. Follow safe handling advice and personal protective equipment recommendations.***

Environmental precautions

Environmental precautions	Vapors can accumulate in low areas. Report spills as required by local and federal regulations. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system. Should not be released into the environment.***
<u>Methods and materials for containment and cleaning up</u>	
Methods for Containment	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains.***
Methods for cleaning up	Soak up with inert absorbent material. Contain liquid and collect with an inter, non-combustible material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. After cleaning, flush away traces with water. Prevent product from entering drains. Take precautionary measures against static discharges.***

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Keep away from open flames, hot surfaces and sources of ignition. Handle in accordance with good industrial hygiene and safety practice. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.***
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Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions	Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces, and sources of ignition. Keep in properly labeled containers. Keep out of the reach of children. Store locked up. Keep cool.***
Incompatible products	Strong acids, alkalis, oxidizing agents.***

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines	. Under most handling conditions, this product will not generate mist or dust. In most aconditions, no special ventilation is nedded .General ventilation is recommended. If the product is heated above 150 C or atomized ventilation should be use.***
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ACGIH: (American Conference of Governmental Industrial Hygienists)

OSHA: (Occupational Safety & Health Administration)

NIOSH IDLH: *Immediately Dangerous to Life or Health****

Other Exposure Guidelines	Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).***
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Exposure controls

Engineering Measures	Showers Eyewash stations Ventilation systems.
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Individual protection measures, such as personal protective equipment

Eye/Face Protection	Tightly fitting safety goggles.***
Skin and body protection	Chemical resistant apron. Protective gloves.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.***

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Physical state	Liquid	Odor	Mild***
Appearance	Clear	Odor Threshold	
Color	Clear		
<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>	
pH	1.5***	+/- 0.50***	
Melting/freezing point	No information available		
Boiling point/boiling range			
Flash Point		No Flashpoint. Product does not sustain combustion.***	
Evaporation rate	No information available		
Flammability (solid, gas)	No information available		
Flammability Limits in Air			
upper flammability limit			
lower flammability limit			
Vapor pressure			
Vapor density			
Specific Gravity	1.02		
Water solubility	Miscible with water***		
Partition coefficient: n-octanol/water			
Autoignition temperature	No information available		
Decomposition temperature			
Viscosity	No information available		
Explosive properties			
<u>Other information</u>			
VOC Content(%)	0		
EPA VOC (g/l)	0***		
Actual VOC (lb/gal)	0***		

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Heat, flames and sparks.***

Incompatible Materials

Strong acids, alkalis, oxidizing agents.***

Hazardous Decomposition Products
 Carbon oxides , Hydrocarbons, Fumes.***

11. TOXICOLOGICAL INFORMATION
Information on likely routes of exposure
Product Information

Inhalation	Respiratory irritation may occur if excessive exposure to product by inhalation.***
Eye contact	Causes serious eye damage.***
Skin contact	Causes severe skin burns.***
Ingestion	May be harmful if swallowed .***

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
SULFAMIC ACID*** 5329-14-6	= 1450 mg/kg (Rat)	-	-

Information on toxicological effects

Symptoms	Causes severe skin burns and eye damage. Causes serious eye damage.***
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Causes severe burns. Irritating to skin.***
Eye damage/irritation	Causes serious eye damage. Irritating to eyes.***
Corrosivity	Causes severe burns. Causes serious eye damage.***
Sensitization	Not a known sensitizer.***
Germ Cell Mutagenicity	Not a germ cell mutagen.***
Carcinogenicity	There are no carcinogenic chemicals in this product.
Reproductive toxicity	This product does not contain any known or suspected reproductive hazards.***
Specific target organ systemic toxicity (single exposure)	No known effect based on information supplied.***
Specific target organ systemic toxicity (repeated exposure)	No known effect based on information supplied.***
Chronic toxicity	Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and potential cardiac arrest.***
Target Organ Effects	No known effects under normal use conditions.***
Neurological effects	Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
Aspiration hazard	No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity	0% of the mixture consists of ingredient(s) of unknown toxicity.***
The following values are calculated based on chapter 3.1 of the GHS document .	
ATEmix (oral)	29000 mg/kg

12. ECOLOGICAL INFORMATION
Ecotoxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
SULFAMIC ACID*** 5329-14-6	-	14.2 mg/L LC50 Pimephales promelas 96h static	-	-

Persistence and degradability

In soil, siloxanes are degraded.***

Bioaccumulation

Not likely to bioaccumulate.***

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS**Waste treatment****Waste Disposal Methods**

This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261). Dispose of in accordance with federal, state, and local regulations.***

Contaminated packaging

Do not re-use empty containers.

14. TRANSPORT INFORMATION**DOT Ground**

NOT REGULATED

IATA

NOT REGULATED

IMDG

NOT REGULATED

15. REGULATORY INFORMATION**International Inventories**

Chemical Name	TSCA	DSL/NDL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
SULFAMIC ACID***	X	X	X	X	X	X	X	X

Legend:

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

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

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

ENCS - Japan Existing and New Chemical Substances

CHINA - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations**SARA 313**

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	Yes***
Chronic Health Star Hazard	No***
Fire Hazard	No***
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).***

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.***

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.***

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
SULFAMIC ACID*** 5329-14-6	X		

EPA Pesticide Registration Number Not applicable

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

16. OTHER INFORMATION

NFPA	Health Hazard 2***	Flammability 1***	Instability 0	Physical and chemical hazards -
HMIS	Health Hazard 2***	Flammability 1***	Physical Hazard 0***	Personal protection B***

Prepared By American Jetway Corporation
34136 Myrtle Street
Wayne, MI 48184-0126***
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Revision Note

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet