Blue Star Silicones

Material Safety Data Sheet

SILBIONE Fluids

V-40000

Date Prepared: 11/13/01 **Supersedes Date: 5/21/01**

1. PRODUCT AND COMPANY DESCRIPTION

Blue Star Inc.
SILICONES
320 West Stanley Avenue
Ventura CA 93001

Emergency Phone Numbers:
FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT: CHEMTREC (800-424-9300 within the United States or 703-527-3887 for international collect calls) or Rhodia CAERS (Communication and Emergency Response System) at 800-916-3232.

For Product Information:
(805) 653-5638

Chemical Name or Synonym:
SILICONE AND XYLENE MIXTURE

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Reg Number	OSHA Hazard	Percentage
XYLENE	1330-20-7	Y	52-65
ETHYLBENZENE	100-41-4	Y	<13
SILICONE ELASTOMER	*********	N	35

3. HAZARDS IDENTIFICATION

A. EMERGENCY OVERVIEW:

Physical Appearance and Odor:
clear viscous liquid, sweet odor

Warning Statements:
WARNING!! FLAMMABLE LIQUID. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. CUASES SKIN, EYE AND RESPIRATORY TRACT IRRITATION. CENTRAL NERVOUS SYSTEM DEPRESSION, CAN ADVERSELY AFFECT THE KIDNEYS, LIVER.

B. POTENTIAL HEALTH EFFECTS:

Acute Eye:
Severe irritant. Can cause redness, tissue destruction, irritation, on prolonged contact, causes permanent damage to the cornea.

Acute Skin:
Harmful if absorbed through skin. Irritant. Can cause redness, dryness loss of natural oils, irritation, on prolonged contact. Can cause destruction of skin tissue.

Acute Inhalation:
Harmful if inhaled. Vapors can cause bright red mucous membranes, at high concentrations , may cause headache, drowsiness, loss of coordination, depression, confusion, vomiting, muscle weakness, unconsciousness, coma.

Acute Ingestion:
Highly toxic if ingested. May cause central nervous system depression, kidney damage, liver damage, liver damage, nausea, dizziness, headache, loss of coordination, vomiting, excitement, coma.

Chronic Effects:
This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

4. FIRST AID MEASURES

FIRST AID MEASURES FOR ACCIDENTAL:

Eye Exposure:
In case of contact, immediately absorb excess with clean absorbent cloth or cotton. Then, hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.

Skin Exposure:
Immediately wipe excess material off skin with a dry cloth; then wash skin with plenty of soap and water. Seek medical attention if irritation develops or persists.

Inhalation:
Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen (if available). If victim is not breathing, administer CPR. Seek immediate medical attention.
Ingestion:

If victim is conscious and alert, give 1-2 glasses of water to drink and do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek medical attention. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and victim is conscious, give water to further dilute the chemical.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:
Central nervous system depressants.

NOTES TO PHYSICIAN:
All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Treat symptomatically. No specific antidote available.

5. FIRE FIGHTING MEASURES

FIRE HAZARD DATA:

Flash Point:
26 C (79 F). FLAMMABLE

Method Used:
Closed Cup

Flammability Limits (vol/vol%):	**Lower:**	**Upper:**
	1	7

Extinguishing Media:
Recommended: dry chemical, foam, carbon dioxide.

Special Fire Fighting Procedures:
Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Cool containers exposed to fire with water.

Unusual Fire and Explosion Hazards:
Product will burn under fire conditions. Vapors may travel a considerable distance to a source of ignition and flash back along vapor trail. Closed containers may explode due to build-up of pressure when exposed to extreme heat.

Hazardous Decomposition Materials (Under Fire Conditions):
formaldehyde
oxides of carbon
oxides of silicon

6. ACCIDENTAL RELEASE MEASURES

Evacuation Procedures and Safety:
Wear appropriate protective gear for the situation. See Personal Protection information in Section 8. CAUTION: Spilled material may make the floor slippery. Do not leave traces of product on floors, ladders, etc., as this may present a slipping hazard. Evacuate and isolate spill area.

Containment of Spill:
Follow procedure described below under Cleanup and Disposal of Spill.

Cleanup and Disposal of Spill:
Absorb with an inert absorbent. Scrape up and place in appropriate closed container (see Section 7: Handling and Storage). Absorb with a damp, inert, non-combustible absorbent. Shovel up into an appropriate closed container (see Section 7)

Environmental and Regulatory Reporting:
Do not flush to drain.

7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperatures:
Not Available

Handling:
Avoid breathing vapors and mists. Avoid direct or prolonged contact with skin and eyes. Use non sparking tools and grounded/bonded equipment and containers when transferring. Vent drums while heating.
Drum Container: Container Hazardous when empty. EMPTIED CONTAINER RETAINS VAPOR AND PRODUCT RESIDUE. FOLLOW LABEL WARNING EVEN AFTER CONTAINER IS EMPTIED. RESIDUAL VAPORS MAY EXPLODE ON IGNITION. DO NOT CUT, DRILL, GRIND OR WELD ON OR NEAR THIS CONTAINER. Improper disposal or reuse of this container may be dangerous and/or illegal. The reuse of this material's container for non-industrial purposes is prohibited and any reuse must be in consideration of the data provided in this MSDS

Bulk container: The hazardous nature of tank inspection, cleaning, repairs, etc requires trained personnel familiar with the hazards involved. Emptied tank retains vapor and product residue,

Storage:
Certain state and local regulations may limit storage quantities, arrangements and locations. These regulations should be considered for storage and handling of this and any other flammable liquid. Store away from ignition sources. Store in tightly closed containers. Recommended container material: epoxy-coated steel, plastic, polyethylene, Store in an area that is dry, well-ventilated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Introductory Remarks:

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

This product can form formaldehyde vapors when heated to temperatures above 150 degrees C in the presence of air. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose, throat, skin, and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for formaldehyde.

Exposure Guidelines:
Exposure limits represent regulated or recommended worker breathing zone concentrations measured by validated sampling and analytical methods, meeting the regulatory requirements. The following limits apply to this material , where, if indicated,

XYLENE	**NOTES**	**TWA**	**STEL**
ACGIH		424 mg/cu m	651 mg/cu m
ACGIH		100 ppm	150 ppm
OSHA		100 ppm	655 mg/cu m
OSHA		435mg/cu m	150 ppm
ETHYLBENZENE			
ACGIH		434 mg/cu m	543 mg/cu m
ACGIH		100 ppm	125 ppm
OSHA		100 ppm	545 mg/cu m
OSHA		435mg/cu m	125 ppm

Engineering Controls:
Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: general area dilution/exhaust ventilation.

Respiratory Protection:
When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

Under normal conditions, in the absence of other airborne contaminants, the following devices should provide protection from this material up to the conditions specified by the appropriate OSHA, WHMIS or ANSI standards: Air purifying (half/full face mask) respirator with cartridges/canister approved for use against organic vapors.

Eye/Face Protection:
Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments. Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles. An emergency eye wash must be readily accessible to the work area.

Skin Protection:
Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance.
Work Practice Controls:
Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

(1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
(2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
(3) Wash exposed skin promptly to remove accidental splashes or contact with this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product Information phone number in Section 1 for its exact specifications.

Physical Appearance:
clear viscous liquid.
Odor:
sweet odor
pH:
Not Applicable
Specific Gravity:
0.87 at 25 C (77F)
Water Solubility:
insoluble
Melting Point Range:
Not Available
Boiling Point Range:
138 to 0 C (280 to 32F) at 760 mmHg
Vapor Pressure:
6 to 6.7 mmHg at 20 C (68F)
Vapor Density:
3.7
Percent Volatiles by Volume:
15

10. STABILITY AND REACTIVITY

Chemical Stability:
This material is stable under normal handling and storage conditions described in Section 7.

Conditions To Be Avoided:
heat
open flame
spark
static electricity

Materials/Chemicals To Be Avoided:
strong bases
strong acids
strong oxidizing agents

The Following Hazardous Decomposition Products Might Be Expected:

Decomposition Type: oxidative/thermal
formaldehyde

Hazardous Polymerization Will Not Occur.
Avoid The Following To Inhibit Hazardous Polymerization:
not applicable

11. TOXICOLOGICAL INFORMATION

Acute Eye Irritation:
The following data are for the specified ingredients.
Toxicological Information and Interpretation
eye- eye irritation, rabbit
Severely irritating. Data for Xylene.

Acute Skin Irritation:
Toxicological Information and Interpretation
skin irritation, rabbit
Moderately irritating. Data for Xylene

Acute Dermal Toxicity:
The following data are for the specified ingredients.

Toxicological Information and Interpretation
LD50 – lethal dose 50% of test species, >1700 mg/kg, rabbit.
Data for Xylene
.
Acute Respiratory Irritation:
No test data found for product.

Acute Inhalation Toxicity:
The following data are for the specified ingredients.

Toxicological Information and Interpretation
LC50- lethal concentration 50% of text species, 5000 ppm/4 hr, rat
Data for Xylene

Acute Oral Toxicity:
The following data are for the specified ingredients.

Toxicological Information and Interpretation
LD50 lethal dose 50% of text species, 4300, mg/kg, rat
Data for Xylene.

Chronic Toxicity:
This product contains substances that are considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens.

Toxicological Information and Interpretation:

	OSHA	IARC	NTP	ACGIH
Ethylbenzene	No	2B	No	No

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:
No data found for product.

Chemical Fate Information:
No data found for product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:
Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

Container Handling and Disposal:
Any containers or equipment used should be decontaminated immediately after use.

EPA Hazardous Waste - yes

14. TRANSPORTATION INFORMATION

Transportation Status: IMPORTANT! Statements below provide additional data on listed DOT classification.
The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

US Department of Transportation
Shipping Name: COATING SOLUTION
Hazard Class ……3

Technical Shipping Name:
(XYLENE)

ID Number	UN1139
Packing Group	III
Labels	Flammable Liquid
Emergency Guide #	127

15. REGULATORY INFORMATION

Inventory Status

Inventory	**Status**
UNITED STATES (TSCA)	Y
CANADA (DSL)	Y
EUROPE (EINECS/ELINCS)	P
AUSTRALIA (AICS)	Y
JAPAN (MITI)	N
SOUTH KOREA (KECL)	Y

Y = All ingredients are on the inventory.

E = All ingredients are on the inventory or exempt from listing.

P = One or more ingredients fall under the polymer exemption or are on the no longer polymer list. All other ingredients are on the inventory or exempt from listing.

N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing.

FEDERAL REGULATIONS

Inventory Issues:
All functional components of this product are listed on the TSCA Inventory.

SARA Title III Hazard Classes:

Fire Hazard	- YES
Reactive Hazard	- NO
Release of Pressure	- NO
Acute Health Hazard	YES
Chronic Health Hazard	- NO

Sara 313 Chemicals
Xylene (52-65%
Ethylbenzene <13%

SARA Extremely Hazardous Substances (EHS)	**CERCLA Hazardous Substances**
Xylene	**100 lbs**
Ethylbenzene	**1000 lbs**

STATE REGULATIONS:
This product does not contain any components that are regulated under California Proposition 65.

16. OTHER INFORMATION

National Fire Protection Association Hazard Ratings--NFPA(R):

3 Health Hazard Rating—Serious
3 Flammability Rating—Serious
0 Instability Rating--Minimal

National Paint & Coating Hazardous Materials Identification System--HMIS(R):

3 Health Hazard Rating—Serious
3 Flammability Rating--Serious
0 Reactivity Rating--Minimal

Reason for Revisions:
Change and/or addition made to Section 3, Section 8.

Key Legend Information:
ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
TLV - Threshold Limit Value
PEL - Permissable Exposure Limit
TWA - Time Weighted Average
STEL - Short Term Exposure Limit
NTP - National Toxicology Program
IARC - International Agency for Research on Cancer
ND - Not determined
RPI - Rhodia Established Exposure Limits

Disclaimer:
The information herein is given in good faith but no warranty, expressed or implied, is made.

** End of MSDS Document **