

SAFETY DATA SHEET

Biosolve™ AFC



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|---------|----------------|--------------|-----------------------------|
| Version | Revision Date: | SDS Number: | Date of previous issue: - |
| 1.0 | 09/13/2018 | 103000008495 | Country / Language: CA / EN |

SECTION 1. IDENTIFICATION

Product name : Biosolve™ AFC

Material number : 62012492

Recommended use : Cleaning agent

Manufacturer or supplier's details

Supplier : LANXESS Corporation
Product Safety & Regulatory Affairs
111 RIDC Park West Drive
PittsburghPA 15275-1112
USA

Telephone : +1800LANXESS
+14128091000 (international)

Emergency telephone : Chemtrec 1-800-424-9300
International 1-703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations (WHMIS 2015).

Skin corrosion : Category 1

Serious eye damage : Category 1

Skin sensitization : Sub-category 1B

Specific target organ system-ic toxicity - single exposure (Inhalation) : Category 1 (Respiratory Tract)

GHS label elements

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Causes damage to organs (Respiratory Tract) if inhaled.

Precautionary Statements : **Prevention:**
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.

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Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
IF exposed or concerned: Call a POISON CENTER/doctor.
If skin irritation or rash occurs: Get medical advice/ attention.
Take off contaminated clothing and wash it before reuse.

Storage:

Store locked up.

Disposal:

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

Hazard Not Otherwise Classified (HNOC)

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Chemical nature : Cleaning agent, based on, Aqueous solution, of, Acids

Hazardous ingredients

| Chemical name | CAS-No. | Concentration (% w/w) |
|---|------------|-----------------------|
| Sulphamic acid | 5329-14-6 | $\geq 10 - < 20$ |
| Phosphoric acid | 7664-38-2 | $\geq 5 - < 10$ |
| Ethoxylated branched C9-11, C10-rich alcohols | 78330-20-8 | $\geq 1 - < 3$ |
| Glycolic Acid | 79-14-1 | $\geq 1 - < 3$ |
| Coconut oil amidopropyl betaine | 61789-40-0 | $\geq 1 - < 5$ |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURES

If inhaled : Call a physician or poison control center immediately.
Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing

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apparatus.

If not breathing, if breathing is irregular or respiratory arrest occurs, provide artificial respiration, or oxygen by a trained professional, using a pocket type respirator.

It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

If unconscious, place in recovery position and get medical attention immediately.

Maintain open airway.

Loosen tight clothing such as a collar, tie, belt or waistband.

In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

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|-------------------------|--|
| In case of skin contact | : Call a physician immediately. Immediately flush skin with large amounts of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Thoroughly clean shoes before reuse. In the event of any complaints or symptoms, avoid further exposure. |
| In case of eye contact | : Call a physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Remove contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. |
| If swallowed | : Call a physician immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If conscious, drink plenty of water. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Rinse mouth with water. |

Most important symptoms and effects, both acute and delayed

- | | |
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| Symptoms | : Eye: Corrosive with symptoms of reddening, tearing, swelling, burning and possible permanent damage. |
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Effects : Skin: Reddening, burning, and possible permanent damage. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Inhalation: Causes respiratory tract burns.
Burns to the respiratory tract can cause swelling that could require a tracheotomy. Pulmonary edema may be delayed for several hours up to several days. Many hydrofluoric acid fatalities have been due to severe pulmonary edema. Toxic effects can also include depletion of calcium in the body, which can result in death if not treated.

Effects : May cause an allergic skin reaction.
Causes serious eye damage.
Causes damage to organs if inhaled.
Causes severe burns.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
In case of fire, use water spray (fog), foam or dry chemical.

Unsuitable extinguishing media : None known.

Specific hazards during fire fighting : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products : Nitrogen oxides (NOx)
Sulfur oxides
Oxides of phosphorus
Carbon dioxide (CO2)
Carbon monoxide
Halogenated compounds
Metal oxides

Further information : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.
No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
If potential for exposure exists refer to Section 8 for specific personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training.
Evacuate personnel to safe areas.

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Keep unnecessary and unprotected personnel from entering.
Do not touch or walk through spilled material.
Do not breathe vapors or spray mist.
Provide adequate ventilation.
Put on appropriate personal protection equipment.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Stop leak if safe to do so.
Move containers from spill area.
Wash spillages into an effluent treatment plant or proceed as follows.
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Dispose of wastes in an approved waste disposal facility.
Do not allow into the sewerage system, surface waters or groundwater or into the soil.
Keep people away from and upwind of spill/leak.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Put on appropriate personal protection equipment.
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
Workers should wash hands and face before eating, drinking and smoking.
Remove contaminated clothing and protective equipment before entering eating areas.
Do not get on skin or clothing.
Do not breathe vapors or spray mist.
Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.
Empty containers retain product residue; observe all precautions for product.
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Conditions for safe storage : Store in accordance with local regulations.
Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink.
Store locked up.
Keep containers sealed until ready for use.
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

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Do not store in unlabeled containers.
Do not store near acids.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|-----------------|-----------|----------------------------------|--|----------|
| Phosphoric acid | 7664-38-2 | TWA | 1 mg/m3 | ACGIH |
| | | STEL | 3 mg/m3 | ACGIH |
| | | TWA | 1 mg/m3 | OSHA Z-1 |

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
A NIOSH approved air purifying respirator with organic vapor cartridges and particulate prefilter can be used to minimize exposure.

Hand protection
Material : Permeation resistant gloves.

Eye protection : Chemical resistant goggles must be worn.
If inhalation hazards exist, a full-face respirator may be required instead.

Skin and body protection : Permeation resistant clothing and foot protection.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Color : yellow

Odor : slight

Odor Threshold : No data available

pH : 0.5 - 1.5

Melting point/range : 0 °C

Boiling point/boiling range : 96 °C

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(1,013 hPa)

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| Flash point | : | Not applicable |
| Evaporation rate | : | No data available |
| Flammability (solid, gas) | : | No data available |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit | : | No data available |
| Vapor pressure | : | 33.33 hPa (25 °C) |
| Relative vapor density | : | No data available |
| Relative density | : | 1.05 |
| Density | : | 0.99 - 1.11 g/cm ³ (20 °C) |
| Bulk density | : | 1.05 kg/m ³ |
| Solubility(ies) Water solubility | : | soluble |
| Partition coefficient: n-octanol/water | : | No data available |
| Ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity | : | No data available |
| Explosive properties | : | No data available |
| Oxidizing properties | : | No data available |
| Molecular weight | : | No data available |
| Metal corrosion rate | : | Not corrosive to metals. |

SECTION 10. STABILITY AND REACTIVITY

| | | |
|------------------------------------|---|--|
| Reactivity | : | No specific test data related to reactivity available for this product or its ingredients. |
| Chemical stability | : | The product is chemically stable. |
| Possibility of hazardous reactions | : | No dangerous reaction known under conditions of normal use. |

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| Conditions to avoid | : | No specific data. |
| Incompatible materials | : | alkalis Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. |
| Hazardous decomposition products | : | No decomposition if stored and applied as directed. |

SECTION 11. TOXICOLOGICAL INFORMATION

The most important known symptoms and effects are described in Section 2 and/or Section 4.

Information on likely routes of exposure

Skin contact
Eye contact
Inhalation
Ingestion

Acute toxicity

Not classified based on available information.

Product:

| | | |
|-----------------------|---|--|
| Acute oral toxicity | : | Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method |
| Acute dermal toxicity | : | Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method |

Components:

Sulphamic acid:

| | | |
|-----------------------|---|---|
| Acute oral toxicity | : | LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 401 |
| Acute dermal toxicity | : | LD50 (Rat, male and female): > 5,000 mg/kg Method: OECD Test Guideline 402 GLP: yes Remarks: Extrapolation according to Regulation (EC) No. 440/2008 |

Phosphoric acid:

| | | |
|---------------------|---|--|
| Acute oral toxicity | : | LD50 (Rat): 2,600 mg/kg Method: OECD Test Guideline 423 |
|---------------------|---|--|

Ethoxylated branched C9-11, C10-rich alcohols:

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| Acute oral toxicity | : | LD50 (Rat): > 2,000 mg/kg |
| Acute dermal toxicity | : | LD50 (Rabbit): > 2,000 mg/kg |

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Glycolic Acid:

Acute oral toxicity : LD50 (Rat): 1,950 mg/kg

Coconut oil amidopropyl betaine:

Acute oral toxicity : LD50 (Rat): 1,500 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Skin corrosion/irritation

Causes severe burns.

Product:

Result: Corrosive

Components:

Sulphamic acid:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Irritating to skin.

Phosphoric acid:

Species: Rabbit

Result: Causes burns.

Glycolic Acid:

Result: Corrosive after 3 minutes to 1 hour of exposure

Coconut oil amidopropyl betaine:

Remarks: Irritant

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Result: Corrosive

Components:

Sulphamic acid:

Species: Rabbit

Result: Irritating to eyes.

Method: OECD Test Guideline 405

Phosphoric acid:

Assessment: Risk of serious damage to eyes.

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Ethoxylated branched C9-11, C10-rich alcohols:

Result: Risk of serious damage to eyes.

Coconut oil amidopropyl betaine:

Remarks: Irritant

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Components:

Sulphamic acid:

Result: Did not cause sensitization on laboratory animals.

Glycolic Acid:

Routes of exposure: Skin contact

Species: Guinea pig

Result: Did not cause sensitization on laboratory animals.

Coconut oil amidopropyl betaine:

Routes of exposure: Skin contact

Result: The product is a skin sensitizer, sub-category 1B.

Remarks: Sensitizing

Germ cell mutagenicity

Not classified based on available information.

Components:

Sulphamic acid:

Genotoxicity in vitro

: Test system: Mammalian-Human
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 487
Result: negative
GLP: yes

Test system: Mammalian-Animal
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Test system: Bacteria
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

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Phosphoric acid:

Genotoxicity in vitro : Test system: Bacteria
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test system: Bacteria
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Causes damage to organs (Respiratory Tract) if inhaled.

Product:

Routes of exposure: Inhalation
Target Organs: Respiratory Tract
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Phosphoric acid:

Species: Rat
NOAEL: 250 mg/kg
Application Route: Oral
Method: OECD Test Guideline 422
Remarks: Chronic toxicity

Aspiration toxicity

Not classified based on available information.

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Sulphamic acid:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 70.3 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
GLP: no
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 71.6 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes
Remarks: Fresh water

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 48 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes
Remarks: Fresh water

NOEC (Desmodesmus subspicatus (green algae)): 18 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes
Remarks: Fresh water

Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): >= 60 mg/l
Exposure time: 34 d
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 19 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211

Toxicity to microorganisms : EC50: > 200 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
GLP: yes
Remarks: Fresh water

Phosphoric acid:

Toxicity to daphnia and other aquatic invertebrates : NOEC (Daphnia magna (Water flea)): 56 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h

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Method: OECD Test Guideline 202

Toxicity to algae : ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Glycolic Acid:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 5,000 mg/l
Exposure time: 96 h

Persistence and degradability

Components:

Sulphamic acid:

Biodegradability : Result: The methods for determining the biological degradability are not applicable to inorganic substances.

Phosphoric acid:

Biodegradability : Result: The methods for determining the biological degradability are not applicable to inorganic substances.

Ethoxylated branched C9-11, C10-rich alcohols:

Biodegradability : Result: Readily biodegradable.

Glycolic Acid:

Biodegradability : Result: Readily biodegradable.

Bioaccumulative potential

Components:

Sulphamic acid:

Partition coefficient: n-octanol/water : log Pow: -4.34

Glycolic Acid:

Partition coefficient: n-octanol/water : log Pow: -1.11
Method: measured

Mobility in soil

No data available

Other adverse effects

No data available

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : The generation of waste should be avoided or minimized wherever possible.
This material and its container must be disposed of in a safe way.
Empty containers retain product residue; observe all precautions for product.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Waste disposal should be in accordance with existing federal, state, provincial and/or local environmental controls.

SECTION 14. TRANSPORT INFORMATION

Domestic regulation

TDG

| | |
|----------------------|---|
| UN number | : UN 3264 |
| Proper shipping name | : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (SULFAMIC ACID, PHOSPHORIC ACID) |
| Class | : 8 |
| Packing group | : II |
| Labels | : 8 |



Environmentally hazardous : no
Product classified per Transportation of Dangerous Goods Regulations sections 2.40-2.42 (Class 8).

International Regulations

IATA-DGR

| | |
|----------------------|---|
| UN/ID No. | : UN 3264 |
| Proper shipping name | : Corrosive liquid, acidic, inorganic, n.o.s. (SULFAMIC ACID, PHOSPHORIC ACID) |
| Class | : 8 |
| Packing group | : II |
| Labels | : 8 |



| | |
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| Packing instruction (cargo aircraft) | : 855: 30.00 L |
| Packing instruction (passen- | : 851: 1.00 L |

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ger aircraft)
Environmentally hazardous : no

IMDG-Code

UN number : UN 3264
Proper shipping name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(SULFAMIC ACID, PHOSPHORIC ACID)
Class : 8
Packing group : II
Labels : 8
:



Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

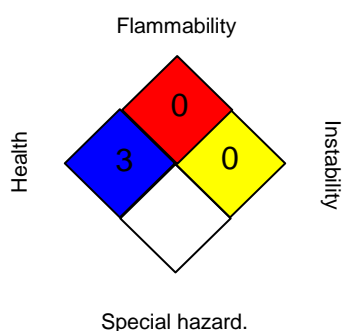
TSCA : On TSCA Inventory
DSL : All components of this product are on the Canadian DSL

Canadian lists

|| No substances are subject to a Significant New Activity Notification.

Further information

NFPA:



HMIS® IV:

| | | |
|-----------------|---|---|
| HEALTH | / | 4 |
| FLAMMABILITY | | 0 |
| PHYSICAL HAZARD | | 0 |

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

LANXESS' method of hazard communication is comprised of Product Labels and Safety Data Sheets. HMIS and NFPA ratings are provided by LANXESS as a customer service.

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SECTION 16. OTHER INFORMATION

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This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge of our knowledge. The information provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge, information and belief at the date of its publication. We assume no legal responsibility for use of or reliance upon the information in this SDS.