
1. Identification of the substance/preparation and of the company/undertaking

Product Name DESOLV SF PLUS

UN/ID No.

Synonyms

Recommended use of the chemical and restrictions on use**Recommended Use** Self-Foaming Degreaser**Uses advised against****Manufacturer Address**

Anderson Chemical Company, 325 South Davis Avenue, Litchfield, MN 55355 (320-693-2477)

Emergency telephone number1-800-424-9300

2. Hazards identification

Classification

OSHA Regulatory Status

Skin Corrosion/Irritation Category 2**Serious Eye Damage/Irritation** Category 1**Label Elements**Signal word: **Danger****Hazard Statements**

Causes skin irritation.

Causes serious eye damage.

Precautionary Statements - Prevention

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

Wear eye protection/face protection.

Precautionary Statements - Response

Specific treatment (see Section 4 on the SDS).

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Precautionary Statements - Storage**Precautionary Statements - Disposal****Hazards not otherwise classified (HNOC)****Other Information**

- May be harmful if swallowed
 - May be harmful in contact with skin
 - Harmful to aquatic life with long lasting effects
-



3. Composition/information on ingredients

Chemical Name	CAS Number	% by Weight
Potassium hydroxide	1310-58-3	0.5
TSRN1530		3.3
TSRN8300		1.25
Orthophosphate, PO4	10101-89-0	3

Chemical Name	CAS Number	% by Weight
TSRN9311	Proprietary	7

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

4. First aid measures

Eye contact

Flush immediately with water for 15 minutes. Lift upper and lower eyelids for complete rinsing. Get immediate medical attention.

Skin Contact

Flush with water for 15 minutes. If irritation persists after rinsing, get medical attention. Remove contaminated clothing and wash before reuse.

Inhalation

Remove victim to fresh air. If breathing difficulty occurs or persists, get medical attention.

Ingestion

Rinse mouth with water. Give water to dilute. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to a semi-comatose, comatose, convulsing or unconscious person.

Self-protection of the first aider

Use personal protection as needed.

Most important symptoms and effects, both acute and delayed

Symptoms

Causes skin irritation. Causes serious eye irritation/damage. Ingestion may cause nausea and vomiting. Inhalation may be irritating.

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

None known.

Specific hazards arising from the chemical

No specific hazards.

Hazardous combustion products

Carbon dioxide. Carbon monoxide. Nitrogen oxides. Hydrochloric acid.

Explosion Data

Sensitivity to mechanical impact None

Sensitivity to static discharge None

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. Use water spray to cool fire exposed containers. Move containers from fire area if you can do it without risk.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

Evacuate nonessential personnel. Ventilate area. Wear appropriate personal protection equipment. Remove all sources of ignition.

Environmental precautions

See Section 12 for additional ecological information.

Methods for containment

Completely contain spilled material with dikes or sand bags, etc.

Methods for cleaning up

Recover as much material as possible into containers for disposal or reuse. Remaining material may be diluted with water and neutralized. Flush spill area with water. Neutralization products, both solid and liquid, must be recovered for disposal.

7. Handling and storage

Precautions for safe handling**Advice on safe handling**

Do not get in eyes, on skin, or clothing. Do not breathe vapors or mists. Do not ingest. Wash thoroughly after handling. Wear protective clothing/equipment. Use with adequate ventilation.

Conditions for safe storage, including any incompatibilities**Storage Conditions**

Keep containers tightly closed and properly labeled. Store in a cool, dry, well-ventilated area, away from incompatible materials. Wash hands before eating, drinking, using tobacco, applying make-up or using the toilet. Do not store, use, and/or consume foods, beverages, tobacco in areas where this product is stored. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Incompatible materials

Strong acids, strong bases, oxidizing agents.

8. Exposure controls/personal protection

Control parameters**Exposure Guideline**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydroxide 1310-58-3	Ceiling: 2 mg/m ³	(vacated) Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³
TSRN1530	1 ppm	1.4 mg/m ³ /1 ppm	
Orthophosphate, PO4 10101-89-0	10 mg/m ³ TWA (inhalable particles, recommended) 3 mg/m ³ TWA (respirable particles, recommended)		

Appropriate engineering controls

Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear safety glasses with side shields (or goggles).

Skin and body protection

Skin and body protection Natural rubber, neoprene or nitrile gloves should be worn. If contact is anticipated, wear protective clothing appropriate to use conditions.

Respiratory protection

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.

General Hygiene Considerations

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Liquid
Color	Clear, blue liquid
Odor	Mild
Odor threshold	No information available
pH	12.6-13.2
Melting point/freezing point	No information available
Boiling point / boiling range	No information available

Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability upper limit in air	No information available
Flammability lower limit in air	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific Gravity	1.023 - 1.043
Water solubility	Soluble in water
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available

10. Stability and reactivity

Reactivity

No information available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

None known

Incompatible materials

Strong acids, strong bases, oxidizing agents.

Hazardous Decomposition Products

Phosphoric acid. Oxides of phosphorus. Oxides of potassium. Oxides of nitrogen. Oxides of carbon.

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation	May cause irritation of respiratory tract.
Eye contact	Causes serious eye irritation/damage.
Skin Contact	Causes skin irritation.
Ingestion	May be harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium hydroxide 1310-58-3	284 mg/kg (Rat)		
TSRN1530		>2000 mg/kg	
TSRN8300	2444 mg/kg	>4640 mg/m3	
TSRN9311 Proprietary	>2000 mg/kg	>2000 mg/kg	

Information on toxicological effects

Symptoms See section 4

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

Sensitization	No information available
Germ cell mutagenicity	No information available
Carcinogenicity	No information available

Chemical Name	ACGIH	IARC	NTP	OSHA

Reproductive toxicity No information available

STOT - single exposure No information available
 STOT - repeated exposure No information available
 Aspiration hazard No information available

Numerical measures of toxicity - Product Information

12. Ecological information

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Potassium hydroxide 1310-58-3		LC50 (Gambusia affinis): 80 mg/L 96h static	EC50 (Daphnia magna): 60 mg/L/48 hr (static bioassay at 20.3-20.7 C)
TSRN1530	EC50, 72 hr 0.076 mg/L		EC50, 48 hr 14 mg/L (Crustacea)
TSRN9311 Proprietary		Acute EC50 5.3 mg/L (Daphnia) Acute LC50 70.1 mg/L (Fish)	

Persistence and degradability No information available

Bioaccumulation No information available

Chemical Name	Partition coefficient
Potassium hydroxide 1310-58-3	0.83

Other adverse effects No information available

13. Disposal considerations

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container.

Chemical Name	California Hazardous Waste Status

14. Transport information

DOT Not regulated.

UN/ID No.

Proper shipping name

Hazardous ingredients

Hazard class

Packing group

15. Regulatory information

US Federal Regulations

SARA 311/312 Hazards

Skin Corrosion/Irritation
 Serious Eye Damage/Irritation

CWA (Clean Water Act)

Chemical Name	Reportable Quantities	Toxic Pollutants	Priority Pollutants	Hazardous Substances

CERCLA

DESOLV SF PLUS

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Potassium hydroxide 1310-58-3	1000 lb	1000 lb	
Orthophosphate, PO4 10101-89-0		2270 kg	

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION

NEPA Health hazards 2 Flammability 0 Instability 0 **Physical and Chemical Properties**
HMS Health hazards 2 Flammability 0 Physical hazards 0 **Personal protection** X
Prepared By lmt
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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