



**SAFETY DATA SHEET**

**SECTION 1**

**MATERIAL IDENTIFICATION**

**PRODUCT NAME / DESCRIPTION: ATS-22**

DISTRIBUTED / MANUFACTURED BY:  
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**SECTION 2**

**HAZARD IDENTIFICATION**

**CLASSIFICATION:**

Flammable Liquids	Category 1
Skin corrosion/irritation:	Category 2
Serious eye damage/eye irritation:	Category 2.5
Reproductive toxin:	Category 1.5
TOST: Acute:	Category 1
TOST: Chronic:	Category 3

SIGNAL WORD:

**DANGER!**

**HAZARD STATEMENTS:**

Extremely flammable liquid and vapor.  
Causes serious eye irritation.  
Causes damage to organs.  
Harmful to aquatic life.

Causes skin irritation.  
May damage fertility or the unborn child.  
Causes damage to organs through prolonged or repeated exposure.



**PRECAUTIONARY STATEMENTS:**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Use personal protective equipment as required.  
Avoid breathing dust, fumes, gas, mist, vapors or spray.  
Keep away from heat, sparks, open flames and hot surfaces. No smoking.  
Do not spray on open flame or other ignition source.  
Keep/store away from clothing or combustible materials.  
Take any precaution to avoid mixing with combustibles.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion proof electrical, ventilating, lighting and equipment.  
Use only non sparking tools.

Take precautionary measures against static discharge.  
 Do not subject to grinding, shock or friction.  
 Avoid contact during pregnancy and while nursing.  
 Wear fire/flame resistant/retardant clothing.  
 Use only outdoors or in a well ventilated area.  
 Wash all exposed skin thoroughly after handling.  
 Avoid release to the environment.  
 If medical advice is needed, have product container or label at hand.  
 Keep out of reach of children.  
 Read label before use.  
 Keep only in original container.  
 Do not get in eyes, on skin or on clothing.  
 Do not eat, drink or smoke when using this product.  
 In case of fire: Stop leak if safe to do so. Eliminate all ignition sources if safe to do so.  
 Store in well ventilated place.

Toxicity:  
 See section 11

### SECTION 3

### HEALTH HAZARDS

<u>Chemical Name</u>	<u>CAS No.</u>	<u>% W/W</u>
Dimethyl Carbonate	616-38-6	< 20
Isobutyl trimethoxysilane	18395-30-7	< 20
Methanol (Proprietary Formula)	67-56-1	< 70

### SECTION 4

### FIRST AID MEASURES

#### Potential acute health effects:

<b>Eyes:</b>	May cause severe irritation, burns or damage.
<b>Skin:</b>	May cause severe irritation, burns or damage.
<b>Inhalation:</b>	May cause severe irritation.
<b>Ingestion:</b>	May cause irritation, corrosion, ulceration, nausea and vomiting.
<b>Medical conditions aggravated by exposure:</b>	None known.
<b>Eye contact:</b>	Immediately flush eyes with cool running water. Lift and separate eye lids while flushing with plenty of water for at least 15 minutes. Get medical attention.
<b>Skin contact:</b>	Wash with soap and water. Get medical attention if irritation occurs. Wash clothing before reuse. Destroy contaminated shoes.
<b>Inhalation:</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms develop.
<b>Ingestion:</b>	No NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Give plenty of water.

### SECTION 5

### FIRE FIGHTING MEASURES

<b>Fire hazard classification (OSHA/NFPA):</b>	3
<b>Extinguishing media:</b>	As required for fire being fought.
<b>Special fire fighting procedures:</b>	Use self-contained breathing apparatus.
<b>Hazardous combustion products:</b>	None known.

### SECTION 6

### ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Wear protective clothing as described in Section 8 of this Safety Data Sheet.

**Containment procedures:**

Stop the flow of material, if this is without risk.  
Wear appropriate protective equipment and clothing during clean up.  
Do not allow the spilled product to enter public drainage system or open water sources.

**Clean up procedures:**

Sweep up or gather material and place in appropriate container for disposal.  
Wash spill area thoroughly.  
Wear protective equipment during clean up.  
Dispose of collected material according to regulations.

**SECTION 7****HANDLING AND STORAGE****Handling:**

Avoid contact with eyes, skin and clothing.  
Do not take internally.  
For industrial use only.  
Wash after handling.  
Do not breathe dust, vapor or gas.  
Keep this and all chemicals out of reach of children.

**Storage:**

Keep away from heat, sparks, and open flames.  
Prevent spills.  
Keep container tightly closed and in a cool, well ventilated place away from incompatible materials.  
Empty product containers may contain product residue, do not reuse.

**SECTION 8****EXPOSURE CONTROLS/PERSONAL PROTECTION****Ventilation system:**

Always keep exposure below permissible exposure limits.  
In general, dilution ventilation is a satisfactory health control for this substance.  
However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

**Airborne exposure limits:**

None established.

**Personal protection:**

As prescribed in the OSHA Standard for Personal Protective Equipment (29 CFR 1920.132), employees must perform a Hazard Assessment of all workplaces to determine the need for, and selection of, proper protective equipment for each task performed.

**Eyes:**

Wear face shield, safety glasses or chemical goggles.

**Hands and skin:**

For prolonged or repeated handling, use impervious gloves. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron and boots are recommended.

**Respiratory:**

If ventilation is not sufficient, appropriate NIOSH/MSHA respiratory protection must be provided.

**Work practices:**

Eye wash fountain and emergency showers are recommended.

**SECTION 9****PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Liquid
Color:	Clear
Odor:	Alcohol
Odor Threshold:	No data available
pH:	No data available
Boiling point:	No data available
Melting point:	No data available
Flash Point:	No data available
Evaporation Rate (Butylacetate=1):	No data available
Flammability (solid, gas):	Flammable
Upper Explosion Limit (UEL):	No data available
Lower Explosion Limit (LEL):	No data available
Specific gravity (Water=1):	0.82+/-0.05

Solubility water:	Soluble
Partition coefficient:	No data available
Autoignition Temperature:	No data available
Decomposition Temperature:	No data available
Viscosity (CPS):	No data available

## SECTION 10

## STABILITY AND REACTIVITY

Stability:	This product is stable under normal temperatures and pressures.
Incompatibility:	Strong oxidizers.
Decomposition products:	None known.
Conditions to avoid:	Extreme heat.

## SECTION 11

## TOXICOLOGICAL INFORMATION

Raw Material	Test	Result	Route	Species
Dimethyl Carbonate (616-38-6)	LD50	6000 mg/kg	Oral	Rat
Isobutyl trimethoxysilane (18395-30-7)	LD50	10,000 mg/kg	Oral	Rat
Methanol (67-56-1)	LD50	5628 mg/kg	Oral	Rat

See Section 4 for symptoms

<b>Carcinogenicity:</b>	No known carcinogens
<b>Mutagenicity:</b>	No known mutagens
<b>Reproductive Toxins:</b>	None known

## SECTION 12

## ECOLOGICAL INFORMATION

Raw Material	Test	Result	Time	Species
Dimethyl Carbonate (616-38-6)	EC50	9 mg/L	96 hr	Algae
Isobutyl trimethoxysilane (18395-30-7)	LC50	> 100 mg/L	96 hrs	Zebra Fish
Methanol (67-56-1)	LC50	15,400 mg/L	96 hrs	Lepomis macrochirus

**Persistence and degradability:** No data available  
**Bioaccumulation potential:** No data available  
**Mobility in soil:** No data available

## SECTION 13

## DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management conditions. State and local disposal regulations may differ from federal disposal regulations. Dispose container and unused contents in accordance with federal, state and local requirements.

## SECTION 14

## TRANSPORT INFORMATION

FLAMMABLE LIQUIDS, N.O.S.  
 (Contains Dimethyl Carbonate, Alkoxysilane, and Methanol)  
 3, UN1993, PG II  
 FLAMMABLE LABEL/PLACARD REQUIRED

## SECTION 15

## REGULATORY INFORMATION

### US FEDERAL REGULATIONS

#### SARA (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

**SARA 302:** Extremely hazardous substances list: NA  
**SARA 312:** Hazard category: NA

SARA 313:

Toxic chemicals list: NA

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT): NA

RCRA (RESOURCE CONSERVATION AND RECOVERY ACT) LISTED HAZARDOUS WASTES: NA

CWA (CLEAN WATER ACT) LISTED SUBSTANCES: NA

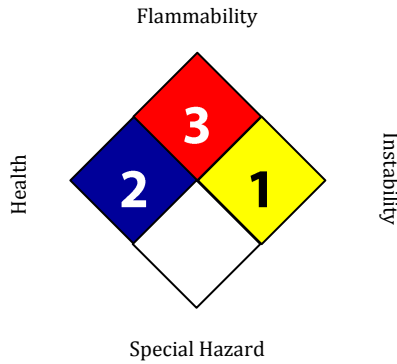
FDA (FOOD AND DRUG ADMINISTRATION): NA

TSCA (TOXIC SUBSTANCES CONTROL ACT): ALL INGREDIENTS LISTED

**SECTION 16**

**OTHER INFORMATION**

**NFPA:**



**HMIS III:**

<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>3</b>
<b>PHYSICAL HAZARD</b>	<b>1</b>

- 0 = not significant**
- 1 = slight**
- 2 = moderate**
- 3 = high**
- 4 = extreme**
- \* = chronic**

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.