



Nurofast Accelerator Solution

SECTION 1. IDENTIFICATION

Product Identifier	Nurofast Accelerator Solution
Other Means of Identification	none
Product Family	Organosilane and amine
Recommended Use	Additive for Nurofast products to accelerate cure.
Restrictions on Use	None known.
Manufacturer/Supplier Identifier	The Stebbins Engineering and Manufacturing Company, 363 Eastern Boulevard, Watertown, NY, 13601, (315) 782-3000, www.stebbinseng.com
Emergency Phone No.	Chemtrec - Within North America, 1-800-424-9300, 24 hours Stebbins 24 Hour Contact-, 1-315-788-6624
SDS No.	013

SECTION 2. HAZARD IDENTIFICATION

Classification

Flammable liquid - Category 4; Acute toxicity (Oral) - Category 3; Acute toxicity (Dermal) - Category 4; Skin irritation - Category 2; Eye irritation - Category 2B; Specific target organ toxicity (repeated exposure) - Category 2; Aquatic hazard (Acute) - Category 2

Label Elements



Signal Word:
Danger

Hazard Statement(s):

Combustible liquid.
Toxic if swallowed.
Harmful in contact with skin.
Causes skin irritation.
Causes eye irritation.
May cause damage to organs (liver, kidneys, eyes, heart) through prolonged or repeated exposure.
Toxic to aquatic life.

Precautionary Statement(s):

Prevention:
Keep away from flames and hot surfaces. – No smoking.
Do not breathe mist, vapours, spray.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid release to the environment.
Wear protective gloves/eye protection/face protection.

Response:
IF SWALLOWED: Immediately call a POISON CENTRE or doctor.
IF ON SKIN: Wash with plenty of water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Call a POISON CENTRE or doctor if you feel unwell.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

Storage:
Store in a well-ventilated place. Keep cool.

Disposal:
Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
gamma-mercaptopropyltrimethoxysilane	4420-74-0	70 - 80%	N/A	None
3-chloropropyltrimethoxysilane	2530-87-2	10 -20%	N/A	None
dibutyltin dilaurate	77-58-7	5 - 10%	N/A	None
3-(methoxy)propyltrimethoxysilane	33580-59-5	0.5 - 1.5%	N/A	None
methanol	67-56-1	0.1 - 1%	N/A	None

Notes

**This ingredient is a component of the complex mixture.

Concentrations are expressed in % weight/weight.

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor. Immediately call a Poison Centre or doctor.

Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Clean clothing, shoes and leather goods.

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Get medical advice or attention if you feel unwell or are concerned.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

Ingestion

Give large quantities of water to drink. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. Immediately call a Poison Centre or doctor.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

Combustible liquid. Can ignite if heated. Releases vapour that can form explosive mixture with air at or above the flash point.

Special Protective Equipment and Precautions for Fire-fighters

Approach fire from upwind to avoid hazardous vapours or gases. Before entry, especially into confined areas, use an appropriate monitor to check for: toxic gases or vapours, flammable or explosive atmosphere.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

It is good practice to prevent releases into the environment. Do not allow into any sewer, on the ground or into any waterway. Minimize the use of water to prevent environmental contamination.

Methods and Materials for Containment and Cleaning Up

Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not get in eyes, on skin or on clothing. Keep containers tightly closed when not in use or empty.

Conditions for Safe Storage

Empty containers may contain hazardous residue. Store separately. Keep closed. Follow all precautions given on this safety data sheet. Store in an area that is: cool.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls

Provide eyewash and safety shower if contact or splash hazard exists. General ventilation is usually adequate. Use local exhaust ventilation and enclosure, if necessary, to control amount in the air.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection

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Wear a NIOSH approved air-purifying respirator with an organic vapour cartridge.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Colourless liquid. Particle Size: Not available
pH	> 12
Melting Point/Freezing Point	< 32 °F (0 °C) (melting); < 32 °F (0 °C) (freezing)
Boiling Range	~ 400 °F (204 °C) (estimated)
Flash Point	Not available
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable (liquid).
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	< 1 mm Hg (0 kPa) at 68 °F (20 °C)
Vapour Density (air = 1)	~ 6.8
Relative Density (water = 1)	1.05
Solubility	Insoluble in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)
Other Information	
Physical State	Liquid
Molecular Formula	Not available
Molecular Weight	Not available
Bulk Density	65.52 lb/ft ³ (1050.00 kg/m ³)
Surface Tension	Not available
Critical Temperature	Not available
Electrical Conductivity	Not available
Vapour Pressure at 50 deg C	Not available
Saturated Vapour Concentration	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Water, moisture or humidity.

Incompatible Materials

Forms flammable chemicals on contact with: water.

Not corrosive to metals.

Hazardous Decomposition Products

Carbon monoxide; carbon dioxide; sulfur oxides; silicon oxides.

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SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Skin contact; eye contact; inhalation.

Skin Corrosion/Irritation

May cause mild irritation based on information for closely related chemicals. The vapour also irritates the skin.

Serious Eye Damage/Irritation

May cause mild irritation based on information for closely related chemicals. The vapour also irritates the eyes.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Symptoms may include headache, nausea, vomiting, dizziness, drowsiness and confusion. A severe exposure may cause stomach pain, muscle pain, difficult breathing and coma. Vision can be impaired and permanent blindness can result. There may be other permanent effects on the nervous system e.g. tremor, seizures.

Skin Absorption

Symptoms may include redness, rash, swelling and itching. May cause harmful effects on the kidneys.

Ingestion

Harmful based on information for closely related materials. Symptoms may include headache, nausea, vomiting, dizziness, drowsiness and confusion. A severe exposure may cause stomach pain, muscle pain, difficult breathing and coma. Vision can be impaired and permanent blindness can result. There may be other permanent effects on the nervous system e.g. tremor, seizures. May cause irritation of the mouth, throat and stomach.

Aspiration Hazard

Not known to be an aspiration hazard.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Symptoms may include dry, red, cracked skin (dermatitis). May cause harmful effects on the kidneys.

Respiratory and/or Skin Sensitization

No information was located for skin sensitization. No information was located for respiratory sensitization.

Carcinogenicity

Not known to cause cancer.

Reproductive Toxicity

Sexual Function and Fertility

Not known to cause effects on sexual function or fertility.

Effects on or via Lactation

Not known to cause effects on or via lactation.

Germ Cell Mutagenicity

Not known to be a mutagen.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to fish, crustacea, algae, based on acute toxicity tests.

LC50: Fish: Bluegill sunfish, 96 hour, 12.3 mg/l

EC50: Crustacea: Daphnia magna, 48 hour, 6.7 mg/l

ErC50: Algae: 40 mg/l

Persistence and Degradability

No ingredient of this product or its degradation products is known to be highly persistent.

Bioaccumulative Potential

Fish Bioconcentration Factor: 31 bioaccumulative potential is low.

Mobility in Soil

No information was located.

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction. Dispose of or recycle empty containers through an approved waste management facility.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
US DOT		Non-Regulated		
IATA (Air)		Non-Regulated		
Canadian TDG		Non-Regulated		
IMO (Marine)	UN3082	environmentally hazardous substance, liquid, n.o.s. (gamma-mercaptopropyltrimethoxysilane)	9	III

Environmental Hazards Marine Pollutant (gamma-mercaptopropyltrimethoxysilane)

Special Precautions Please note: Not regulated by D.O.T., Not regulated by Canadian TDG, except when all or part of the transportation is by vessel.

Transport in Bulk according to International Maritime Organization Instruments

Not applicable

Other Information If all or part of the transportation is by vessel, this material must be classified as "environmentally hazardous substance, liquid, n.o.s. (gamma-mercaptopropyltrimethoxysilane), UN3082, class 9, packing group III, and as a marine pollutant. Otherwise, this material is not regulated.

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL or are not required to be listed.

CEPA - National Pollutant Release Inventory (NPRI)

Part 1A, Part 5. (methanol)

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

Additional USA Regulatory Lists

SARA Title III - Section 311/312: Chronic Health Hazard Fire Hazard

California Proposition 65: Warning! This product contains a chemical known in the state of California to cause cancer, birth defects or other reproductive harm.

SECTION 16. OTHER INFORMATION

NFPA Rating Health - 3 Flammability - 1 Instability - 1

SDS Prepared By B.E.R.

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Updated C.A.S.# Additional Information;
reviewed and approved

Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists
HSDB® = Hazardous Substances Data Bank
IARC = International Agency for Research on Cancer
NFPA = National Fire Protection Association NIOSH = National Institute for Occupational Safety and Health
NTP = National Toxicology Program
OSHA = US Occupational Safety and Health Administration
RTECS® = Registry of Toxic Effects of Chemical Substances

References

CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).
HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS).

Disclaimer

NOTE: The information contained herein is, to the best of our knowledge, accurate and reliable. However, no warranty is expressed or implied regarding the accuracy of this information, or the results to be obtained from the use thereof.