

SAFETY DATA SHEET

Section 1. Identification

GHS product identifier: Urethane Accelerator
Product number: 8704
Product use: Additive: For Professional and Industrial Use Only.
Restrictions on use: Not for sale to the general public.
Manufacture/Supplier: Transtar Autobody Technologies
Address: 2040 Heiserman Dr.
Brighton, Mi. 48114
Telephone: 810-360-1600
Website: www.tat-co.com
Emergency telephone number: Chemtrec (North America) 800-424-9300
Chemtrec (Int'l) +1-703-527-3887

Section 2. Hazards identification

OSHA/HCS status: This material is considered hazardous by the OSHA Hazardous Communication Standard (29 CFR 1910.1200).

Hazard classification:

Physical hazards: Flammable Liquids: Category 2

Health hazards: Skin Corrosion: Category 1C
Serious Eye Damage: Category 1
Skin Sensitization: Category 1
Germ Cell Mutagenicity: Category 2
Reproductive Toxicity: Category 1B
Specific Target Organ Toxicity (Single Exposure): Category 1
Specific Target Organ Toxicity (Repeated Exposure): Category 1
Specific Target Organ Toxicity (Single Exposure) (Narcotic effects): Category 3
Acute Aquatic Toxicity: Category 1
Chronic Aquatic Toxicity: Category 1

GHS label elements

Hazard pictograms:



Signal word: Danger

Hazard statements: H225: Highly flammable liquid and vapor.
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.
H341: Suspected of causing genetic defects.
H360: May damage fertility or the unborn child.
H370: Causes damage to organs.
H372: Causes damage to organs through prolonged or repeated exposure.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:

Prevention: P201: Obtain special instructions before use.

SAFETY DATA SHEET

P202: Do not handle until all safety precautions have been read and understood.
 P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P233: Keep container tightly closed.
 P240: Ground/bond container and receiving equipment.
 P241: Use explosion-proof electrical/ventilating/lighting/equipment.
 P242: Use only non-sparking tools.
 P243: Take precautionary measures against static discharge.
 P260: Do not breathe dust/fume/gas/mist/vapors/spray.
 P264: Wash thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P271: Use only outdoors or in a well-ventilated area.
 P272: Contaminated work clothing should not be allowed out of the workplace.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P281: Use personal protective equipment as required.

Response: P370+P378: In case of fire; Use water spray, carbon dioxide, dry chemical or alcohol-resistant foam for extinction.
 P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+P361+P353:: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+P340+P310: IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
 P305+P351+P338+P310: 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 or doctor/physician.
 P307+P311: If exposed: Call a POISON CENTER or doctor/physician.
 P333+P313; If skin irritation or rash occurs: Get medical advice/attention.
 P363: Wash contaminated clothing before reuse.
 P337+P313: If eye irritation persists: Get medical advice/attention.
 P312: Call a POISON CENTER/doctor/physician if you feel unwell.
 P321 Specific treatment (see first aid section on this label).
 P391: Collect spillage.

Storage: P403+P233: Store in a well-ventilated place. Keep container tightly closed.
 P235: Keep cool.
 P405: Store locked up.

Disposal: P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): None known.

Section 3. Composition / Information on Ingredients

Components	CAS #	Percent
Acetone	67-64-1	>99
Dibutyltin dilaurate	77-58-7	<0.5

Section 4. First aid measures

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. In case of irritation from airborne exposure, move to fresh air. Get medical attention promptly.

Skin Contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes.

SAFETY DATA SHEET

Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that gas or vapor is still present, the rescuer should wear an appropriate mask of self –contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute

Potential acute health effects

Eye contact: Causes serious eye damage/irritation.

Skin contact: Skin corrosion/irritation.

Inhalation: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.

Ingestion: Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:
Pain or irritation.
Watering
Redness

Skin contact: Adverse symptoms may include the following:
irritation
redness

Inhalation: Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness

Ingestion: Adverse symptoms may include the following:
nausea or vomiting

Indication of immediate medical attention and special

SAFETY DATA SHEET

treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments: Treat symptomatically and supportively.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. If it is suspected that gas or vapor is still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Section 5. Fire-fighting measures

Suitable extinguishing media: Use dry chemical, carbon dioxide, water spray (fog) or foam.

Unsuitable extinguishing media: Do not use water jet.

Special hazards arising from the substance or mixture: Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. Acetone/water solutions that contain more than 2.5% acetone have flash points. When acetone concentration is greater than 8% (by weight) in a closed container, it would be within the flammable range and cause fire or explosion if a source of ignition were introduced.

Hazardous thermal decomposition products: Decomposition products may include the following materials: carbon dioxide, carbon monoxide, smoke, oxides of nitrogen.

Special protective actions for fire-fighters: 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 spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self contained breathing apparatus with full face piece operated in the positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

SAFETY DATA SHEET

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up: Eliminate sources of ignition. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Avoid runoff into storm sewers and ditches which lead to waterways. Use only non-combustible material for clean-up. Recover by pumping (use explosion proof or hand pump). Use clean, non-sparking tools to collect absorbed materials. Eliminate all ignition sources. Prevent additional discharge of material is able to do so safely. Do not touch or walk through spilled material. Collect spilled materials for disposal. Wear appropriate personal protective equipment (see Section 8 Exposure controls/personal protection). Evacuate unnecessary personnel. Do not apply water to the leak.

Section 7. Handling and storage

Precautions for safe handling: Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not swallow. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion proof electrical equipment. Empty containers retain product residue and can be hazardous. Do not reuse container. Ground and bond containers when transferring material. 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. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities: 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. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls / personal protection

Control parameters
Occupational exposure limits

U.S. ACGIH Threshold Limit Values

Components	Type	Value	Form
Acetone	TWA	500ppm 8 hours	
		1188 mg/m ³ 8 hours	
	STEL	750ppm 15 minutes	
Dibutyltin dilaurate	TWA	1782mg/m ³ 15 minutes	
		0.1mg/m ³	

SAFETY DATA SHEET

STEL 0.2mg/m3

U.S. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Acetone	TWA	1000ppm 8 hours	
		2400 mg/m3 8 hours	
Dibutyltin dilaurate	TWA	0.1mg/m3	

USA. NIOSH REL

Components	Type	Value	Form
Acetone	TWA	250ppm 10 hours	
		590 mg/m3 10 hours	
Dibutyltin dilaurate	TWA	0.1 mg/m3	

Appropriate engineering controls:

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection:

Safety glasses equipped with side shields are recommended as minimum protection in industrial settings.

Skin protection

Hand protection:

Chemical-resistant gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers.

Body protection:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection:

Use a properly fitted, air-purifying or supplied-air respirator complying with an approved standard if a risk assessment indicated this is necessary. 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.

Section 9. Physical & Chemical Properties

Appearance

Physical state:	Liquid
Form:	Liquid
Color:	Colorless
Odor:	Sweetish

SAFETY DATA SHEET

Odor threshold:	Not available
pH:	Not available
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	56.05°C (132.9°F)
Flash point:	-17.8°C (-0.04°F) (Tag closed cup)
Evaporation rate:	Not available
Upper/lower flammability or explosive limits:	Not available
Vapor pressure:	Not available
Vapor density:	➤ 1 Air = 1
Relative density:	0.786-0.789
Solubility(ies):	Not available
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Other information:	No additional information

Section 10. Chemical stability & reactivity information

Reactivity:	None known.
Chemical stability:	Stable.
Possibility of hazardous reactions:	None known.
Conditions to avoid:	All possible sources of ignition (heat, sparks, flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatible materials:	Strong oxidizing agents. Strong acids. Strong alkalis.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

SAFETY DATA SHEET

Conclusion/summary:	Not available
Oral:	Acetone: Oral LD50: (Rat): 5,800 mg/kg Dibutyltin dilaurate: (Rat): 2,071 mg/kg
Dermal:	Acetone: Dermal LD50: (Rabbit): 15,700 mg/kg Dibutyltin dilaurate Dermal LD50: (Rat): >2,000 mg/kg
Inhalation:	Acetone: LC50: (Rat, 4 h): 32,000 mg/m3 Dibutyltin dilaurate: Not available
<u>Irritation/Corrosion</u>	
Skin:	Acetone: (Rabbit, 24 h, 500 mg): Mild irritant Acetone: (Rabbit, 24 h, 395 mg): Mild irritant Dibutyltin dilaurate: (Rabbit): Corrosive, category 1C – where responses occur after exposures between 1 hour and 4 hours and observation up to 14 days.
Eyes:	Acetone: (Rabbit, 10 micro liters): Mild irritant Acetone: (Rabbit, 24 h, 20 mg): Moderate irritant Acetone: (Rabbit, 20 mg): Severe irritant Acetone: (Human, 186,300 ppm): Mild irritant Dibutyltin dilaurate: (Rabbit): Severe eye irritation
Respiratory:	Not available
<u>Sensitization</u>	
Skin:	Dibutyltin dilaurate: Maximisation Test (GPMT) Guinea pig: May cause allergic skin reaction (OECD Test Guideline 406)
Respiratory:	Not available
<u>Mutagenicity</u>	
Conclusion/Summary:	Dibutyltin dilaurate: Germ cell mutagenicity : In vitro tests showed mutagenic effects Result: Not mutagenic in Ames Test Result: Positive results were obtained in some in vitro tests.
<u>Carcinogenicity</u>	
Conclusion/Summary:	This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
<u>Reproductive toxicity</u>	

SAFETY DATA SHEET

Conclusion/Summary:	Dibutyltin dilaurate: Presumed human reproductive toxicant Developmental Toxicity-Rat-Oral Specific Developmental Abnormalities: Craniofacial (including nose and tongue). Specific Developmental Abnormalities: Musculoskeletal system.
Specific target organ toxicity (single exposure):	Acetone: Category 3 Narcotic effects Dibutyltin dilaurate: Causes damage to organs.-Thymus
Specific target organ toxicity (repeated exposure):	Dibutyltin dilaurate: Causes damage to organs through prolonged or repeated exposure.-Thymus
Aspiration hazard:	Not available
Information on likely routes of exposure:	Routes of entry anticipated: Oral, Dermal, Inhalation.
<u>Potential acute health effects:</u>	
Eye contact:	Causes serious eye irritation.
Inhalation:	Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.
Skin contact:	Causes skin irritation.
Ingestion:	Can cause central nervous system (CNS) depression.
<u>Symptoms related to the physical, chemical and toxicological characteristics</u>	
Eye contact:	Adverse symptoms may include pain or irritation, watering, redness.
Inhalation:	Adverse symptoms may include nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness.
Skin contact:	Adverse symptoms may include irritation, redness.
Ingestion:	Adverse symptoms may include nausea or vomiting.
Potential chronic health effects:	Not available

Section 12. Ecological information

Toxicity

Acute toxicity

Acetone:

Algae-Ulva pertusa	EC50 20.565 mg/l Marine water 96 hours
Crustaceans-Gammarus pulex	LC50 6000000 ug/l Fresh water 48 hours
Daphnia-Daphnia magna	LC50 10000 ug/l Fresh water 48 hours
Fish-Poecilia reticulata	LC50 5600 ppm Fresh water 96 hours

Dibutyltin dilaurate:

Daphnia-Daphnia magna	EC50 <0.46 mg/l 48 hours
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Chronic toxicity

Acetone:

SAFETY DATA SHEET

Algae-Ulva pertusa	NOEC 4.95 mg/l Marine water 96 hours
Crustaceans-Daphniidae	NOEC 0.016 ml/L Fresh water 21 days
Daphnia-Daphnia magna-Neonate	NOEC 0.1 ml/L Fresh water 21 days
Fish-Gasterosteus aculeatus-Larvae	NOEC 5 ug/l Marine water 42 days

Persistence and degradability

Biodegradation:	Not available
Biological Oxygen Demand:	Not available
Chemical Oxygen Demand Product:	Not available
BOD/COD ratio:	Not available
Bioaccumulative potential:	Not available
Mobility in soil:	Not available
Results of PBT and vPvB assessment:	Not available
Other adverse effects:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

Section 13. Disposal considerations

Disposal methods: Dispose of waste in accordance with all local, state and federal regulations.

Section 14. Transport information

DOT

Basic shipping requirements:	
UN number	UN1263
Proper shipping name	Paint Related Material
Hazard class	Flammable Liquid
Labels required	3
Additional information:	
Packaging exceptions	150
Packaging non bulk	173
Packaging bulk	242

IATA

Basic shipping requirements:	
UN Number	1263
Proper shipping name	Paint Related Material
Hazard class	3
Packing group	II

Section 15. Regulatory information

US federal regulations

OSHA:	This product is hazardous according to OSHA 29 CFR 1910.1200
SARA Title III Section 313 – Toxic Chemical: Listed Substance:	None
SARA Title III Section 302 Extremely hazardous substances:	None

SAFETY DATA SHEET

SARA Title III Section 311/312 Hazard categories: Immediate (acute) health hazard
Delayed (chronic) health hazard
Fire hazard

Inventory Status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

* A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State Regulations

California Proposition 65: **Warning:** This product does not contain a chemical known to the State of California to cause cancer.
Warning: This product does not contain a chemical known to the State of California to cause birth defects or other reproductive harm.

Massachusetts RTK: Acetone, 67-64-1

New Jersey RTK: Acetone, 67-64-1; Dibutyltin dilaurate, 77-58-7

Pennsylvania RTK: Acetone, 67-64-1; Dibutyltin dilaurate, 77-58-7

Compliance Statement
Coating Category:

	As Packaged		As Applied	
	Grams/Liter	Lbs/Gal	Grams/Liter	Lbs/Gal
Actual VOC	0	0	0	0
Reg. VOC	0	0	0	0
	Lbs/Gal Solids	Lbs/Lbs Solids	Lbs/Gal Solids	Lbs/Lbs Solids
HAPs	none	none	none	none
	Wt%	Vol.%	Wt%	Vol.%
Volatiles	99.5	99.6	99.5	99.6
Water	none	none	none	none
Exempt	99.5	99.6	99.5	99.6
	Grams/Liter	Lbs/Gal	Grams/Liter	Lbs/Gal
Density	787	6.56	787	6.56

Section 16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA

HMIS® ratings Health: 2
Flammability: 3
Physical hazard: 0

NFPA ratings Health: 2
Flammability: 3
Instability: 0

Disclaimer The information on this SDS was obtained from sources which we believe to be reliable. However, the



SAFETY DATA SHEET

information provided is without warranty, expressed or implied, regarding its correctness. Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information and recommendations are offered for the user's consideration and examination and should be used to make independent determination of the methods to safeguard workers and the environment. The conditions or methods of handling storage, use and disposal of the product are beyond our control and may be beyond our control and may be beyond our knowledge. For these reasons we do not assume responsibility and expressly disclaim any liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use or disposal of this product. It is the responsibility of the user to comply with all Federal, State and Local laws and regulations.

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