

SAFETY DATA SHEET

Section 1 - Product and Company Identification

Product Name: 2.1 Low VOC Urethane Clearcoat Product Code: 6531, 6534

Manufacturer/Supplier:
TRANSTAR AUTOBODY TECHNOLOGIES
2040 Heiserman Dr.
Brighton, MI, 48114, USA

24 Hour Emergency Phone(s):
USA 800-424-9300 (CHEMTREC)
International 001-703-527-3887 (CHEMTREC Int'l)

Business Phone: 810-360-1600
MSDS Prepared By: Transtar Autobody Technologies

Product Use: Automotive Paint. Professional use only.
Not recommended for: Not for sale to the general public

Section 2 - Hazards Identification

Classification of the substance or mixture

GHS Ratings:

Flammable liquid	2	Flash point < 23°C and initial boiling point > 35°C (95°F)
Dermal Toxicity	Acute Tox. 3	Dermal>200+<=1000mg/kg
Skin corrosive	3	Reversible adverse effects in dermal tissue, Draize score: >= 1.5 < 2.3
Eye corrosive	2	Eye Irritation: Reversible adverse effects on cornea, iris, conjunctiva, Draize score: Corneal opacity >= 1, Iritis > 1, Redness >= 2, Chemosis >= 2
Reproductive toxin	1B	Known or presumed to cause effects on human reproduction or on development
Organ toxin single exposure	3	Transient target organ effects- Narcotic effects- Respiratory tract irritation
Organ toxin repeated exposure	2	Presumed to be harmful to human health- Animal studies with significant toxic effects relevant to humans at generally moderate exposure (guidance)- Human evidence in exceptional cases
Aquatic toxicity	A3	Acute toxicity <= 10.0 but < 100 mg/l

GHS Hazards

H225	Highly flammable liquid and vapour
H311	Toxic in contact with skin
H316	Causes mild skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H360	May damage fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H402	Harmful to aquatic life

GHS Precautions

P101	If medical advice is needed, have product container or label at hand
P102	Keep out of reach of children
P103	Read label before use
P201	Obtain special instructions before use
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/mist/vapours/spray
P264	Wash hands thoroughly after handling
P271	Use only outdoors or in a well-ventilated area
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P312	Call a POISON CENTER or doctor if you feel unwell
P321	Specific treatment (see supplemental first aid instructions on this label)
P352	Wash with soap and water
P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor
P303+361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+351+338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+313	IF exposed or concerned: Get medical advice
P332+313	If skin irritation occurs: Get medical advice
P370+378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction
P405	Store locked up
P403+235	Store in a well ventilated place. Keep cool
P501	Dispose of contents and container in accordance with local, regional, national and international regulations.

Danger



Routes of Entry

Inhalation Skin Contact Eye Contact Ingestion

Target Organs

Eyes Kidneys Liver Central Nervous System Skin Peripheral Nervous System
 Respiratory System

ACUTE:

INHALATION - Dizziness, breathing difficulty, headaches, & loss of coordination .

EYE CONTACT - Moderate irritation, tearing, redness, and blurred vision.

SKIN CONTACT - Moderate irritant. Can dry and defat skin causing cracks, irritation, and dermatitis.

INGESTION - Can cause gastrointestinal irritation, vomiting, nausea, & diarrhea.

Effects of Overexposure

Short Term Exposure Causes local irritation to skin, eyes and mucous membranes. May cause irritation by any route of exposure. The LD50 rat is 13 gm/kg (13,000 mg/kg) (insignificantly toxic). Methyl n-amyl ketone can affect you when breathed in and by passing through your skin. Irritates the eyes and the respiratory tract. May affect the central nervous system. Breathing the vapor can cause dizziness and lightheadedness, and can make you pass out. Contact can irritate the skin. Exposure can irritate the eyes and respiratory tract. Exposure to high concentrations can cause dizziness, lightheadedness, and unconsciousness.

Long Term Exposure There is evidence that this chemical is a mutagen. Causes skin irritation with cracking and drying; destroys the skin's natural oils. May cause liver and kidney damage. May affect the nervous system. Repeated skin exposure can cause dryness and skin cracking. This chemical has not been adequately evaluated to determine whether brain or nerve damage could occur with repeated exposure. However, many solvents and other petroleum-based chemicals have been shown to cause such damage. Effects may include reduced memory and concentration, personality changes (withdrawal, irritability), and fatigue, sleep disturbances, reduced coordination, and/or effects on the nerves to the arms and legs (weakness, "pins and needles").

The following chemicals comprise of at least 0.1% of this mixture and are listed and/or classified as carcinogens or potential carcinogens by the NTP, IARC, OSHA (mandatory listing) or ACGIH (optional listing).

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
None			No Data Available

Chronic Affects:
 May affect liver, kidney and central nervous system with repeated exposure . Prolonged or repeated exposure may cause lung injury.

Hazards not otherwise classified (HNOC) or not covered by GHS:
 Contains photochemically reactive solvents

Section 3 -Composition			
Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Chlorobenzotrifluoride 98-56-6 50 to 60%	Not Established	Not Established	
Acrylic polyol, Proprietary 10 to 20%			
Acetone 67-64-1 10 to 20%	1000 ppm TWA; 2400 mg/m3 TWA	750 ppm STEL 500 ppm TWA	NIOSH: 250 ppm TWA; 590 mg/m3 TWA
Acrylic/styrene copolymer 5 to 10%			
Acrylic Copolymer, Proprietary 1 to 5%			
Methyl n-Amyl Ketone 110-43-0 1 to 5%	100 ppm TWA; 465 mg/m3 TWA	50 ppm TWA	NIOSH: 100 ppm TWA; 465 mg/m3 TWA

Section 4 - First Aid Measures

INHALATION: If breathing is difficult, remove person to fresh air and keep comfortable for breathing . If breathing difficulty persists, seek medical attention .

EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for a minimum of 15 minutes. If eye irritation persists: seek medical advice/attention.

SKIN CONTACT: Do NOT use solvents or thinners to wash off. Wash exposed area thoroughly with soap and water. Seek medical attention if irritation persists.

INGESTION: DO NOT INDUCE VOMITING unless directed to do so by a physician or poison control center . Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Most important symptoms and effects, both acute and delayed:

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

Indication of any immediate medical attention and special treatment needed.

Seek professional medical attention for all over-exposures and/or persistent problems.

Section 5 - Fire Fighting Measures

LEL: 1.1 %

UEL: 12.8 %

Extinguishing Media: Foam, Alcohol Foam, CO2, Dry Chemical.

Unsuitable Extinguishing Media: None known

Unusual Fire and Explosion Hazards: Vapors can travel to a source of ignition and flash back . Closed containers may explode when exposed to extreme heat or burst when contaminated with water (CO2 gas evolved). Hazards apply to empty containers. Combustion generates toxic fumes.

Hazardous Combustion Products: oxides of carbon, oxides of nitrogen, formaldehyde, toxic fume

Special Firefighting Procedures: Highly toxic fumes may be generated by thermal decomposition. Water runoff from firefighting can cause environmental damage. Dike and collect water used to fight fire.

Fire Equipment: Full fire fighter equipment including SCBA should be worn to avoid skin contact and inhalation of concentrated vapors.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Avoid breathing vapors and mist. Ensure adequate ventilation. Eliminate all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulation to form explosive concentrations. Vapors can accumulate in low areas.

For personal protection see section 8.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up:

Dike spill area and add absorbent earth or sawdust to spilled liquid. Sweep up and dispose of in appropriate containers in accordance with Federal, State and/or Local regulations.

Section 7 - Handling and Storage

Safe Handling Measures: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use non-sparking tools and explosion proof equipment when handling this material. Keep away from sources of ignition - No Smoking. Use in cool, well-ventilated areas. Keep containers closed when not in use. Take measures to prevent the build up of electrostatic charge. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. For precautions see section 2.

Storage Requirements: Keep container tightly closed. Keep away from heat/sparks/open flames/hot surfaces-No Smoking. Store in a cool, dry and well-ventilated place. Do not reuse container when empty.

Section 8 - Exposure Control and PPE

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Chlorobenzotrifluoride 98-56-6	Not Established	Not Established	
Acrylic polyol, Proprietary			
Acetone 67-64-1	1000 ppm TWA; 2400 mg/m ³ TWA	750 ppm STEL 500 ppm TWA	NIOSH: 250 ppm TWA; 590 mg/m ³ TWA
Acrylic/styrene copolymer			
Acrylic Copolymer, Proprietary			
Methyl n-Amyl Ketone 110-43-0	100 ppm TWA; 465 mg/m ³ TWA	50 ppm TWA	NIOSH: 100 ppm TWA; 465 mg/m ³ TWA

Engineering Controls: Ground and bond container and receiving equipment. Use explosion proof electrical, ventilation, lighting equipment. Use non-sparking tools.

Ventilation: General mechanical ventilation or local exhaust should be utilized to keep vapor concentrations below exposure limits (PEL & TLV). Ventilation equipment must be explosion proof.

Safe Work Practices: Eye washes and safety showers in the workplace are recommended. Avoid contact with skin and eyes. Avoid breathing vapors. Wash hands thoroughly after using and before eating, drinking or smoking. Employee education and training in the safe use and handling of this product is required under the OSHA Hazard Communication Standard 29CFR1200. Smoking in area where this material is used should be strictly prohibited. Always use protective clothing and equipment. Remove all contaminated clothing and wash thoroughly when finished working. Keep food and drink away from material and from area where material is being used. Spraying of material can cause an oxygen deficient environment. Use proper ventilation to remove vapors, mist and fumes combined with NIOSH approved respirator.

Respiratory Protection: When working with this material use a MSHA/NIOSH approved cartridge respirator or suitable respiratory protection to keep airborne mists and vapor concentrations below the PEL & TLV limits. When using in poorly ventilated and confined spaces, use a fresh-air supplying respirator or a self-contained breathing apparatus.

Eye/Face Protection: Use safety glasses with chemical splash goggles or faceshield.

Skin Protection: Use chemical resistant gloves.

Body Protection: Impervious clothing, flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Section 9 - Physical and Chemical Properties

This mixture typically exhibits the following properties under normal circumstances:

Appearance Clear	Physical State Liquid
Odor Organic solvent	Odor threshold: No data available

<p>pH: No data available</p> <p>Freezing point: No data available</p> <p>Flash point: -4 F,-20 C</p> <p>Flammability: Not applicable to liquids</p> <p>Vapor Pressure: 64.8</p> <p>Density (Lb / Gal) 9.42</p> <p>Partition coefficient (n- No data available octanol/water):</p> <p>Decomposition temperature: No data available</p> <p>Regulatory Coating VOC g/L 104</p> <p>Actual Coating VOC g/L 35</p> <p>Weight Percent Volatile 70.02</p> <p>% Weight VOC 3.13</p> <p>% Wt Exempt VOC 66.89</p>	<p>Melting point: No data available</p> <p>Boiling range: 56°C</p> <p>Evaporation rate: No data available</p> <p>Explosive Limits: 1% - 13%</p> <p>Vapor Density: 64.8</p> <p>Solubility: No data available</p> <p>Autoignition temperature: 393°C</p> <p>Viscosity: No data available</p> <p>Regulatory Coating VOC 0.87 lb/gal</p> <p>Actual Coating VOC lb/Gal 0.29</p> <p>Specific Gravity (SG) 1.128</p> <p>% Weight Water 0.0</p> <p>% Vol Exempt VOC 66.06</p>
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Section 10 - Stability and Reactivity

Reactivity: No data available

Stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: Vapors may form explosive mixture with air.

Conditions to avoid: Heat, flame and sparks. Extreme temperature and direct sunlight.

Incompatible with:
 Strong acids
 Strong oxidizing agents
 Strong bases

Hazardous products produced under decomposition:
 Carbon Monoxide, Carbon Dioxide
 Hazardous polymerization will not occur.

Section 11 - Toxicological Information

Mixture Toxicity

Dermal Toxicity: 648.00mg/kg
 Inhalation Toxicity: 53.93mg/L

Component Toxicity:

Component Description Oral, Dermal, Inhalation Toxicity	Ecotoxicity:
Chlorobenzotrifluoride Oral:13.00 g/kg (Rat) Inhalation: Rat mg/L (Rat)	48 Hr EC50 Daphnia magna: 3.68 mg/L
Acrylic polyol, Proprietary	N/A

Acetone	96 Hr LC50 Oncorhynchus mykiss: 4.74 - 6.33 mL/L; 96 Hr LC50 Pimephales promelas: 6210 - 8120 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 8300 mg/L 48 Hr EC50 Daphnia magna: 10294 - 17704 mg/L [Static]; 48 Hr EC50 Daphnia magna: 12600 - 12700 mg/L
Acrylic/styrene copolymer	N/A
Acrylic Copolymer, Proprietary	N/A
Methyl n-Amyl Ketone Oral: 1,600.00 mg/kg (Rat) Dermal: 12.60 mL/kg (Rabbit)	96 Hr LC50 Pimephales promelas: 126 - 137 mg/L [flow-through]

This mixture has not been tested for toxicological effects .

Routes of Entry: See section 2

Signs and Symptoms of Overexposure: See section 2

Acute Effects: See section 2

Target Organ Effects: See section 2

Chronic Effects: See section 2

Carcinogenicity: See section 2

Section 12 - Ecological Information

See section 11 for Ecotoxicity information.

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: Contains photochemically reactive solvent.

This material has not been tested for ecological effects .

Section 13 - Disposal Considerations

Product should be disposed of in accordance with all Federal, State and local regulations. Contact a licensed professional waste disposal service to dispose of this material. Subject to hazardous waste generation, treatment, storage and disposal rules under RCRA, 40CFR261.

Section 14 - Transportation Information

The following transportation information is provided based on Transtar Autobody Technologies interpretation of shipping regulations. Each shipper is responsible for identifying, naming, marking and labeling prior to offering for transport .

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
IATA	Paint	UN1263	II	3
IMDG	Paint	UN1263	II	3
USDOT	Paint	UN1263	II	3

For inner packagings not exceeding 5L each packaged in a strong outer box: Limited Quantity

Section 15 - Regulatory Information

The information listed in this section is not all inclusive of all regulations for this product or the chemical components of this product.

HAPS: This formulation contains the following HAPS:

- None

NJ RTK: The following chemicals are listed under New Jersey RTK

110-43-0 Methyl n-Amyl Ketone 1 to 5 %

67-64-1 Acetone 10 to 20 %

California Proposition 65

WARNING: This product contains chemical(s) known to the State of California to cause birth defects or other reproductive harm.

- None

California Proposition 65

WARNING: This product contains chemical(s) known to the State of California to cause cancer .

- None

PA RTK: The following chemicals are listed under Pennsylvania RTK:

110-43-0 Methyl n-Amyl Ketone 1 to 5 %

67-64-1 Acetone 10 to 20 %

The chemicals listed below are on the EU REACH SIN list

- None

TSCA Inventory Section 8(b)

110-43-0 Methyl n-Amyl Ketone

67-64-1 Acetone

98-56-6 Chlorobenzotrifluoride

WHMIS:

110-43-0 Methyl n-Amyl Ketone 1 to 5 %

67-64-1 Acetone 10 to 20 %



The following are not listed under TSCA or do not meet the reporting/listing requirements under TSCA: - None

Section 16 - Other Information

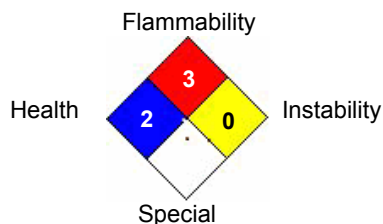
Note: HMIS Ratings involve data and interpretations that can vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

Hazardous Material Information System (HMIS)

HEALTH	<input type="text"/>	2
FLAMMABILITY	<input type="text"/>	3
PHYSICAL HAZARD	<input type="text"/>	0
PERSONAL PROTECTION	<input type="text"/>	

HMIS & NFPA Hazard Rating Legend
* = Chronic Health Hazard
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH

National Fire Protection Association (NFPA)



Date Prepared: 10/21/2014

To the best of our knowledge, the information contained herein is accurate, obtained from sources believed by Transtar Autobody Technologies to be accurate. As with all chemicals, KEEP AWAY FROM CHILDREN AND ANIMALS. FOR PROFESSIONAL USE ONLY. The hazard information contained herein is offered solely for the consideration of the user, subject to his own investigation and verification of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.