

SAFETY DATA SHEET

Section 1 - Chemical Product and Company Information

Product Name: Jammin Clear Aerosol
Manufacturer/Supplier:
TRANSTAR AUTOBODY TECHNOLOGIES
2040 Heiserman Dr.
Brighton, MI, 48114, USA

Product Code: 6213
24 Hour Emergency Phone(s):
USA & Canada 800-424-9300 (CHEMTREC)
International 001-703-527-3887 (CHEMTREC Int'l)

Business Phone: 800-824-2843
SDS Prepared By: Transtar Autobody Technologies

Canadian Distributor:

Product Use: For Professional and Industrial 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 aerosol	1	Flammable aerosol class 1
Gas under pressure	Compressed gas	Entirely gaseous at -50°C
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Mutagen	1B	Known to produce heritable mutations in human germ cells Subcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity
Carcinogen	1A	Known Human Carcinogen Based on human evidence
Reproductive toxin	1A	Based on human evidence
Organ toxin single 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
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

GHS Hazards

H222	Extremely flammable aerosol
H280	Contains gas under pressure; may explode if heated
H315	Causes skin irritation
H319	Causes serious eye irritation
H340	May cause genetic defects
H350	May cause cancer
H360	May damage fertility or the unborn child
H371	May cause damage to organs

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, hot surfaces, sparks, open flames and other ignition sources - No smoking

H373 May cause damage to organs through prolonged or repeated exposure

P211 Do not spray on an open flame or other ignition source
P251 Pressurized container - Do not pierce or burn, even after use
P260 Do not breathe dust, mist, vapors or spray
P264 Wash contacted skin thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P280 Wear protective gloves, protective clothing, eye protection, face protection and respiratory protection.

P321 Specific treatment (see first aid instructions on SDS)
P362 Take off contaminated clothing and wash before reuse
P302+P352 IF ON SKIN: Wash with soap and water
P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing
P308+P313 IF exposed or concerned: Get medical advice

P332+P313 If skin irritation occurs: Get medical advice
P337+P313 If eye irritation persists: Get medical attention.
P405 Store locked up
P403 Store in a well ventilated place Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
P410+P412
P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

Danger



Please refer to the SDS for additional information. Keep upright in a cool, dry place. Do not discard empty can in trash compactor.

Hazards not otherwise classified (HNOC) or not covered by GHS:

None known

The following % of the mixture consists of ingredient(s) of unknown acute toxicity.

0%

Section 3 - Composition

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Acetone 67-64-1 20 to 30%	1000 ppm TWA; 2400 mg/m ³ TWA	750 ppm STEL 500 ppm TWA	NIOSH: 250 ppm TWA; 590 mg/m ³ TWA
Propane/Isobutane/N-butane 68476-86-8 20 to 30%	1000 ppm TWA	1000 ppm TWA	
n-Butyl Acetate 123-86-4 10 to 20%	150 ppm TWA; 710 mg/m ³ TWA	200 ppm STEL 150 ppm TWA	NIOSH: 150 ppm TWA; 710 mg/m ³ TWA 200 ppm STEL; 950 mg/m ³ STEL
Methyl n-Amyl Ketone 110-43-0 10 to 20%	100 ppm TWA; 465 mg/m ³ TWA	50 ppm TWA	NIOSH: 100 ppm TWA; 465 mg/m ³ TWA
Toluene 108-88-3 5 to 10%	200 ppm TWA	20 ppm TWA	NIOSH: 100 ppm TWA; 375 mg/m ³ TWA 150 ppm STEL; 560 mg/m ³ STEL
Xylene 1330-20-7 1 to 5%	100 ppm TWA; 435 mg/m ³ TWA	150 ppm STEL 100 ppm TWA	
Ethylbenzene 100-41-4 1 to 5%	100 ppm TWA; 435 mg/m ³ TWA	20 ppm TWA	NIOSH: 100 ppm TWA; 435 mg/m ³ TWA 125 ppm STEL; 545 mg/m ³ STEL

Section 4 - First Aid Measures

INHALATION: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it's suspected that fumes are still present, the rescuer should wear an appropriate mask or 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 or physician. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

EYE CONTACT: Rinse continuously with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing for a minimum of 15 minutes while holding eye lids open. If eye irritation persists: seek medical attention.

SKIN CONTACT: Wash exposed area thoroughly with soap and water. Take off all contaminated clothing and shoes immediately. Seek medical attention if irritation persists. Wash clothing and shoes before reuse. Do NOT use

solvents or thinners to wash off.

INGESTION: If swallowed, seek medical attention immediately and have product container or label at hand. 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. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. 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 and effects, both acute and delayed:

Potential acute health effects:

Eye contact: Causes serious eye irritation.

Inhalation: Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin contact: Causes skin irritation.

Ingestion: Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms:

Eye contact: Adverse symptoms may include the following:

Pain or irritation, watering, redness

Inhalation: Adverse symptoms may include the following:

Respiratory tract irritation, coughing, nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness, reduced fetal weight, increase in fetal deaths, skeletal malformations

Skin contact: Adverse symptoms may include the following:

Irritation, redness, reduced fetal weight, increase in fetal deaths, skeletal malformations.

Ingestion: Adverse symptoms may include the following:

Nausea or vomiting, reduced fetal weight, increase in fetal deaths, skeletal malformations.

Indication of any immediate medical attention and special treatment needed.

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

In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments: No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are 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

LEL: 1.0 %

UEL: 12.8 %

Extinguishing Media: Dry Chemical, Foam, CO2 or water fog. Use an extinguishing agent suitable for the surrounding fire.

Unsuitable Extinguishing Media: None known.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.

Hazardous combustible Products: Carbon monoxide, carbon dioxide, nitrogen oxides, metal oxide(s).

Special Fire Fighting Procedures: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Runoff to sewer may create fire or explosion hazard. Water runoff from firefighting can cause environmental damage. Dike and collect water used to fight fire.

Fire Equipment: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6 - Spillage/Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Eliminate all ignition sources. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Beware of vapors accumulation to form explosive concentrations. Vapors can accumulate in low areas. Put on appropriate personal protective equipment. For personal protection see section 8.

For large spills or transportation accidents involving release of this product, contact the National Response Center: 800-424-9300

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let spilled material or runoff enter drains, sewers, waterways or soil. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up:

Small Spills: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spills: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

Section 7 - Handling & Storage

Safe Handling Measures: Put on appropriate personal protective equipment (see Section 8). Aerosol cans contain pressurized, flammable propellant. Protect from sunlight, flames and do not expose to temperatures exceeding 50°C. Cans will burst if exposed to extreme heat or temperatures. Do not pierce or burn, even after use. Avoid exposure. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid exposure during pregnancy. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container when empty. Keep aerosol can capped when not in use. Keep spray nozzle pointed away from face and do not direct nozzle spray towards people or animals.

General Occupational Hygiene: 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.

Storage Requirements: Store in accordance with local regulations. Pressurized container: Store away from sunlight and do not expose to temperatures exceeding 50°C. Store 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. Use appropriate containment to avoid environmental contamination.

Section 8 - Exposure Controls/Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
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
Propane/Isobutane/N-butane 68476-86-8	1000 ppm TWA	1000 ppm TWA	
n-Butyl Acetate 123-86-4	150 ppm TWA; 710 mg/m ³ TWA	200 ppm STEL 150 ppm TWA	NIOSH: 150 ppm TWA; 710 mg/m ³ TWA 200 ppm STEL; 950 mg/m ³ STEL
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
Toluene 108-88-3	200 ppm TWA	20 ppm TWA	NIOSH: 100 ppm TWA; 375 mg/m ³ TWA 150 ppm STEL; 560 mg/m ³ STEL
Xylene 1330-20-7	100 ppm TWA; 435 mg/m ³ TWA	150 ppm STEL 100 ppm TWA	
Ethylbenzene 100-41-4	100 ppm TWA; 435 mg/m ³ TWA	20 ppm TWA	NIOSH: 100 ppm TWA; 435 mg/m ³ TWA 125 ppm STEL; 545 mg/m ³ STEL

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

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates 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.

Eye Protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin Protection:

Hand protection: Chemical-resistant, impervious 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. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Contaminated Gear/Hygiene Practices: Remove all contaminated clothing and wash thoroughly when finished working. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Keep food and drink away from materials and from area where material is being used or stored.

Section 9 - Physical & Chemical Properties

This mixture typically exhibits the following properties under normal circumstances:

<p style="text-align: center;">Appearance Clear</p> <p style="text-align: center;">Odor Organic solvent</p> <p style="text-align: center;">pH: No data available</p> <p style="text-align: center;">Freezing point: No data available</p> <p style="text-align: center;">Flash point: -60 F,-51 C</p> <p style="text-align: center;">Flammability: No data available</p> <p style="text-align: center;">Vapor Pressure: 78.3 mmHg</p> <p style="text-align: center;">Density (Lb / Gal) 6.35</p> <p style="text-align: center;">Partition coefficient (n- octanol/water): No data available</p> <p style="text-align: center;">Decomposition temperature: No data available</p> <p style="text-align: center;">Regulatory Coating VOC g/L 641</p> <p style="text-align: center;">Actual Coating VOC g/L 485</p> <p style="text-align: center;">Weight Percent Volatile 88.97</p> <p style="text-align: center;">% Weight VOC 63.74</p> <p style="text-align: center;">% Wt Exempt VOC 25.22</p>	<p style="text-align: center;">Physical State Liquid</p> <p style="text-align: center;">Odor threshold: No data available</p> <p style="text-align: center;">Melting point: No data available</p> <p style="text-align: center;">Boiling range: 56°C</p> <p style="text-align: center;">Evaporation rate: No data available</p> <p style="text-align: center;">Explosive Limits: 1% - 13%</p> <p style="text-align: center;">Vapor Density: 3.1</p> <p style="text-align: center;">Solubility: No data available</p> <p style="text-align: center;">Autoignition temperature: 393°C</p> <p style="text-align: center;">Viscosity: No data available</p> <p style="text-align: center;">Regulatory Coating VOC lb/gal 5.35</p> <p style="text-align: center;">Actual Coating VOC lb/Gal 4.05</p> <p style="text-align: center;">Specific Gravity (SG) 0.761</p> <p style="text-align: center;">% Weight Water 0.0</p> <p style="text-align: center;">% Vol Exempt VOC 24.25</p>
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Section 10 - Stability and Reactivity
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Reactivity: No data available

Stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: Vapors may form explosive mixture with air. Hazardous polymerization will not occur.

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

Incompatible with:

Strong oxidizers
Strong oxidizing agents
Acids
Strong bases

Hazardous products produced under decomposition: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Carbon Monoxide, Carbon Dioxide .

Section 11 - Toxicological Information

Mixture Toxicity

Inhalation Toxicity: 40mg/L

Component Toxicity

123-86-4	n-Butyl Acetate Inhalation: 29 mg/L (Rat)
110-43-0	Methyl n-Amyl Ketone Oral: 1,600 mg/kg (Rat) Inhalation: 17 mg/L (Rat)
108-88-3	Toluene Oral: 2,600 mg/kg (Rat) Inhalation: 13 mg/L (Rat)
1330-20-7	Xylene Oral: 3,500 mg/kg (Rat) Dermal: 4,350 mg/kg (Rabbit) Inhalation: 29 mg/L (Rat)
100-41-4	Ethylbenzene Oral: 3,500 mg/kg (Rat) Inhalation: 17 mg/L (Rat)

This mixture has not been tested for toxicological effects .

Acute Effects:

INHALATION - Dizziness, breathing difficulty, headaches, & loss of coordination . Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

EYE CONTACT - Causes serious eye irritation, tearing, redness, and blurred vision .

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

INGESTION - Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach..

Chronic Effects:

May affect liver, kidney and central nervous system with repeated exposure . Prolonged or repeated exposure may cause lung injury. May cause damage to organs through prolonged or repeated exposure. Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Routes Of Entry:

Inhalation Skin Contact Eye Contact Ingestion

Target Organs

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

Effects of Overexposure

Short Term Exposure

The substance irritates the eyes, skin, and respiratory tract. High exposures, above the occupational exposure levels, can cause weakness, headache, and drowsiness and may cause unconsciousness. Ethyl benzene irritates the eyes, skin, and respiratory tract. Exposure to high concentrations can cause dizziness, lightheadedness and unconsciousness. Very high exposures (above the OEL) can cause difficult breathing, narcosis, coma, and even death. Swallowing the liquid may cause aspiration into the lungs, resulting in chemical pneumonitis. May affect the central nervous system. Concentration of 200 ppm can cause irritation. Inhalation: Exposure to vapor can be irritation to the nose and throat. Inhalation of vapor at concentrations above 200 ppm or 3 - 5 minutes can lead to xylene intoxication. Symptoms include headache, dizziness, nausea and vomiting. If exposure should continue, central nervous system depression characterized by shallow breathing and weak pulse can occur. Levels of 230 ppm for 15 minutes may cause lightheadedness without loss of equilibrium. Reversible liver and kidney damage in man has followed exposure to sudden high concentrations of vapor. Such high levels may also give rise to lung congestion. Exposure to extremely high concentrations (10,000 ppm or more) of xylene vapors can lead to a strong narcotic effect with symptoms of slurred speech, stupor fatigue, confusion, unconsciousness, coma, and possible death. Irritates the eyes and respiratory tract. Causes central nervous system depression. High levels of exposure may cause fatigue, weakness, confusion, euphoria, dizziness, headache; dilated pupils, lacrimation (discharge of tears); nervousness, muscle fatigue, insomnia; paresthesia; cardiac dysrhythmia, unconsciousness and death may occur. Inhalation: 100 ppm exposure can cause dizziness, drowsiness and hallucinations. 100 - 200 ppm can cause depression, 200 - 500 ppm can cause headaches, nausea, loss of appetite, loss of energy, loss of coordination and coma. In addition to the above, death has resulted from exposure to 10,000 ppm for an unknown time. Skin: Can cause dryness and irritation. Absorption may cause or increase the severity of symptoms listed above. Eyes: Can cause irritation at 300 ppm. Ingestion: Can cause a burning sensation in the mouth and stomach, upper abdominal pain, cough, hoarseness, headache, nausea, loss of appetite, loss of energy, loss of coordination and coma. Contact can irritate the skin. Exposure can irritate the eyes and respiratory tract. Exposure to high concentrations can cause dizziness, lightheadedness, and unconsciousness. 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.

Long Term Exposure

n-Butyl acetate may cause skin allergy. n-Butyl acetate has been shown to damage the developing fetus in animals. Prolonged and repeated exposure to butyl acetates can cause defatting, drying and cracking of the skin. Although many solvents and petroleum based products cause lung, brain and nerve damage, these chemicals have not been adequately evaluated to determine these effects. Repeated or prolonged exposure to the skin may cause drying, scaling and blistering. May cause kidney disease, liver disease, chronic respiratory disease, skin disease, as follows: EB is not nephrotoxic. Concern is expressed because the kidney is the primary route of excretion of EB and its metabolites. EB is not hepatotoxic. Since EB is metabolized by the liver, concern is expressed for these tissues. Exacerbation of pulmonary pathology might occur following exposure to EB. Individuals with impaired pulmonary function might be at risk. EB is a defating agent and may cause dermatitis following prolonged exposure. Individuals with preexisting skin problems may be more sensitive to EB. There is limited evidence that EB may damage the developing fetus, and may cause mutations. Inhalation of xylene vapor and skin contact with liquid are the two most probable routes of long term exposure. Symptoms of inhalation are dizziness, headache and nausea. Long term exposure has been associated with liver and kidney damage, intestinal tract disturbances and central nervous system depression. Prolonged contact with skin can lead to irritation, dryness and cracking. Repeated exposure can cause poor memory, difficulty in concentration, and other brain effects. It can also cause damage to the eye surface. Repeated or prolonged contact with skin may cause dermatitis; drying, cracking, itching, and skin rash. May cause liver, kidney, and brain damage; decreased learning ability, psychological disorders. Levels below 200 ppm may produce headache, tiredness and nausea. From 200 - 750 ppm symptoms may include insomnia, irritability, dizziness, some loss of memory, cause heart palpitations and loss of coordination. Blood effects and anemia have been reported but are probably due to contamination by benzene. 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"). Causes skin irritation with cracking and drying; destroys the skin's natural oils. May cause liver and kidney damage. May affect the nervous system.

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>
100-41-4	Ethylbenzene	1 to 5%	Ethylbenzene: IARC: Possible human carcinogen OSHA: listed

Section 12 - Ecological

This material has not been tested for ecological effects.

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: Contains photochemically reactive solvent.

Component Ecotoxicity

Acetone	96 Hr LC50 <i>Oncorhynchus mykiss</i> : 4.74 - 6.33 mg/L; 96 Hr LC50 <i>Pimephales promelas</i> : 6210 - 8120 mg/L [static]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 8300 mg/L 48 Hr EC50 <i>Daphnia magna</i> : 10294 - 17704 mg/L [Static]; 48 Hr EC50 <i>Daphnia magna</i> : 12600 - 12700 mg/L
n-Butyl Acetate	96 Hr LC50 <i>Lepomis macrochirus</i> : 100 mg/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : 17 - 19 mg/L [flow-through] 72 Hr EC50 <i>Desmodesmus subspicatus</i> : 674.7 mg/L
Methyl n-Amyl Ketone	96 Hr LC50 <i>Pimephales promelas</i> : 126 - 137 mg/L [flow-through]
Toluene	96 Hr LC50 <i>Pimephales promelas</i> : 15.22 - 19.05 mg/L [flow-through] (1 day old); 96 Hr LC50 <i>Pimephales promelas</i> : 12.6 mg/L [static]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 5.89 - 7.81 mg/L [flow-through]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 14.1 - 17.16 mg/L [static]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 5.8 mg/L [semi-static]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 11.0 - 15.0 mg/L [static]; 96 Hr LC50 <i>Oryzias latipes</i> : 54 mg/L [static]; 96 Hr LC50 <i>Poecilia reticulata</i> : 28.2 mg/L [semi-static]; 96 Hr LC50 <i>Poecilia reticulata</i> : 50.87 - 70.34 mg/L [static] 48 Hr EC50 <i>Daphnia magna</i> : 5.46 - 9.83 mg/L [Static]; 48 Hr EC50 <i>Daphnia magna</i> : 11.5 mg/L 96 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : >433 mg/L; 72 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : 12.5 mg/L [static]
Xylene	96 Hr LC50 <i>Pimephales promelas</i> : 13.4 mg/L [flow-through]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 2.661 - 4.093 mg/L [static]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 13.5 - 17.3 mg/L; 96 Hr LC50 <i>Lepomis macrochirus</i> : 13.1 - 16.5 mg/L [flow-through]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 19 mg/L; 96 Hr LC50 <i>Lepomis macrochirus</i> : 7.711 - 9.591 mg/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : 23.53 - 29.97 mg/L [static]; 96 Hr LC50 <i>Cyprinus carpio</i> : 780 mg/L [semi-static]; 96 Hr LC50 <i>Cyprinus carpio</i> : >780 mg/L; 96 Hr LC50 <i>Poecilia reticulata</i> : 30.26 - 40.75 mg/L [static] 48 Hr EC50 water flea: 3.82 mg/L; 48 Hr LC50 <i>Gammarus lacustris</i> : 0.6 mg/L
Ethylbenzene	96 Hr LC50 <i>Oncorhynchus mykiss</i> : 11.0 - 18.0 mg/L [static]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 4.2 mg/L [semi-static]; 96 Hr LC50 <i>Pimephales promelas</i> : 7.55 - 11 mg/L [flow-through]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 32 mg/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : 9.1 - 15.6 mg/L [static]; 96 Hr LC50 <i>Poecilia reticulata</i> : 9.6 mg/L [static] 48 Hr EC50 <i>Daphnia magna</i> : 1.8 - 2.4 mg/L 72 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : 4.6 mg/L; 96 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : >438 mg/L; 72 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : 2.6 - 11.3 mg/L [static]; 96 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : 1.7 - 7.6 mg/L [static]

Section 13 - Disposal Considerations

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of in the sewer. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not incinerate containers.

Section 14 - Transportation

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.

Special precautions for user: Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bold according to Annex II of MARPOL 73/78 and the IBC Code: Not available.

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
IATA	Aerosols, Flammable	UN1950		2.1
IMDG	Aerosols, Flammable	UN1950		2.1
USDOT	Aerosols, Flammable Limited Quantity	UN1950		2.1

Section 15 - Regulatory

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

Australia-AICS: The following chemicals are listed:

- 100-41-4 Ethylbenzene 1 to 5 %
- 1330-20-7 Xylene 1 to 5 %
- 108-88-3 Toluene 5 to 10 %
- 110-43-0 Methyl n-Amyl Ketone 10 to 20 %
- 123-86-4 n-Butyl Acetate 10 to 20 %
- 68476-86-8 Propane/Isobutane/N-butane 20 to 30 %
- 67-64-1 Acetone 20 to 30 %

California Hazardous Substance List:

- None

China-SEPA (IECSC): The following chemicals are listed :

- 100-41-4 Ethylbenzene 1 to 5 %
- 1330-20-7 Xylene 1 to 5 %
- 108-88-3 Toluene 5 to 10 %
- 110-43-0 Methyl n-Amyl Ketone 10 to 20 %
- 123-86-4 n-Butyl Acetate 10 to 20 %
- 68476-86-8 Propane/Isobutane/N-butane 20 to 30 %
- 67-64-1 Acetone 20 to 30 %

HAPS: This formulation contains the following HAPS:

- 100-41-4 Ethylbenzene 1 to 5 %
- 1330-20-7 Xylene 1 to 5 %
- 108-88-3 Toluene 5 to 10 %

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

- 100-41-4 Ethylbenzene 1 to 5 %
- 1330-20-7 Xylene 1 to 5 %
- 108-88-3 Toluene 5 to 10 %
- 110-43-0 Methyl n-Amyl Ketone 10 to 20 %
- 123-86-4 n-Butyl Acetate 10 to 20 %
- 67-64-1 Acetone 20 to 30 %

California Proposition 65

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

108-88-3 Toluene 5 to 10 %

California Proposition 65

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

100-41-4 Ethylbenzene 1 to 5 %

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

- 100-41-4 Ethylbenzene 1 to 5 %
- 1330-20-7 Xylene 1 to 5 %
- 108-88-3 Toluene 5 to 10 %
- 110-43-0 Methyl n-Amyl Ketone 10 to 20 %
- 123-86-4 n-Butyl Acetate 10 to 20 %
- 67-64-1 Acetone 20 to 30 %

EU REACH SIN: The chemicals listed below are on the EU REACH SIN list

85-68-7 0.1 to 1.0 %

SARA 312: This Product contains the following chemcials subject to the reporting requirements of SARA 312:

- 100-41-4 Ethylbenzene 1 to 5 %
- 108-88-3 Toluene 5 to 10 %

SARA 313: This Product contains the following chemcials subject to the reporting requirements of SARA 313:

- 100-41-4 Ethylbenzene 1 to 5 %
- 108-88-3 Toluene 5 to 10 %

TSCA: The following are not listed under TSCA or do not meet the reporting/listing requirements under TSCA:

None

SARA: The following are reportable under SARA:

- 100-41-4 Ethylbenzene 1.0 - 5%
- 1330-20-7 Xylene 1.0 - 5%
- 108-88-3 Toluene 5 - 10%
- Acrylic Polymer, Proprietary (non hazardous) 1.0 - 5%
- 68476-86-8 Propane/Isobutane/N-butane 20 - 30%

Section 16 - Other Information

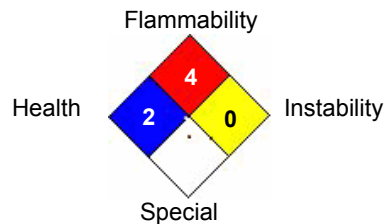
Note: HMIS Ratings involve data and interpretations that can vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

Hazardous Material Information System (HMIS)

HEALTH	2
FLAMMABILITY	4
PHYSICAL HAZARD	0
PERSONAL PROTECTION	H

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

National Fire Protection Association (NFPA)



Date Prepared: 6/24/2015

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 AND INDUSTRIAL 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.