

SAFETY DATA SHEET

1. IDENTIFICATION

PRODUCT NAME: REVOLUTION - 2K DTM Polyurethane Base

PRODUCT NUMBER: 19-313-20

Manufacture/Supplier: Transtar Autobody Technologies
Address: 2040 Heiserman Dr., Brighton, Mi. 48114
Business Phone: 800-824-2843

Distributor (if applicable):

**Chemtrec 24 Hour
Emergency Telephone:** USA/Canada: 800-424-9300 (CHEMTREC)
 International: +1-703-741-5970 (CHEMTREC INT'L)

Recommended Use: Commercial and Industrial Coating –
 For Professional and Industrial Use Only.
 Not Recommended for sale to the general public.

2. HAZARDS IDENTIFICATION

Classification:

- **HAZARDOUS SUBSTANCE.** (According to the criteria of OSHA Hazard Communication Standard, 29 CFR 1910.1200)
- **DANGEROUS GOODS.**

CLASSIFICATION	GHS CATEGORY	SIGNAL WORD	HAZARD CODE	HAZARD STATEMENT
Flammable Liquids	2	Danger	H225	Highly flammable liquid and vapour.
Acute Toxicity – Oral	4	Warning	H302	Harmful if swallowed.
Aspiration Hazard	1	Danger	H304	May be fatal if swallowed and enters airways.
Acute Toxicity – Dermal	4	Warning	H312	Harmful in contact with skin.
Skin Corrosion/ Irritation	2	Warning	H315	Causes skin irritation.

Eye Damage/ Irritation	1	Danger	H318	Causes serious eye damage.
Acute Toxicity – Inhalation	4	Warning	H332	Harmful if inhaled.
Specific Target Organ Toxicity (Single Exposure)	3	Warning	H335	May cause respiratory irritation.
Specific Target Organ Toxicity (Single Exposure)	3	Warning	H336	May cause drowsiness and dizziness.
Carcinogenicity	2	Warning	H351	Suspected of causing cancer.
Hazardous To The Aquatic Environment – Long Term Hazard	3	None	H412	Harmful to aquatic life with long lasting effects.

Hazard Symbols:



Precautionary Statements:

- Obtain special instructions for use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat/sparks/open flames/ hot surfaces. No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilation/lighting/equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Wear protective gloves/protective clothing/eye protection/face protection/respiratory protection.
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- IF ON SKIN (or hair): Remove /take off immediately all contaminated clothing. Wash skin with plenty of soap and water.
- IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
- IF exposed or concerned: Get medical advice/attention.
- Call a POISON CENTER or doctor/physician if you feel unwell.
- Specific treatment (see first aid instructions in this SDS).
- Specific measures (see first aid instructions in this SDS).
- Rinse mouth.

- DO NOT induce vomiting.
- If skin irritation occurs: Get medical advice/attention.
- If eye irritation persists: Get medical advice/attention.
- Take off contaminated clothing and wash before reuse.
- In case of fire: Use Foam, Carbon Dioxide or Dry Chemical Powder for extinction.
- Store in a well-ventilated place. Keep tightly closed. Keep cool.
- Store locked up.
- Dispose of contents and container in accordance with local, regional, national and international regulations.

Hazards Not Otherwise Classified: Repeated exposure may cause skin dryness and cracking.

Ingredients with Unknown Acute Toxicity: No applicable information is available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity / Hazardous Component	CAS Numbers	Proportion by wt.
p-Chlorobenzotrifluoride	98-56-6	30 - 60%
Xylene	1330-20-7	10 - 30%
N-Butyl Acetate	123-86-4	0 - 10%
N-Butanol	71-36-3	0 - 10%
Iso-Butanol	78-83-1	0 - 1%
Solvent Naphtha (petroleum), light arom.	64742-95-6	0 - 1%

This product(s) also contains 0 – 60% of other ingredients which are considered non-hazardous in accordance with:

1. 29 CFR Part 1910, subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA).
2. Threshold Limit Values for Chemical Substances and Physical Agents in the Work Environment, American Conference of Government Industrial Hygienists (ACGIH).
3. National Toxicology Program (NTP)
4. International Agency for Research on Cancer.

4. FIRST AID MEASURES

Route of Exposure: First Aid Measures and Immediate Medical Treatment

Ingestion: Give a glass of water. Do NOT induce vomiting. Place patients head downwards if vomiting occurs. Prevent it entering lungs, as aspiration of material into the lungs can cause chemical pneumonitis which can be fatal. Immediately call a POISON CENTER or doctor/physician.

Eye: Immediately irrigate with large quantities of water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin: Wash exposed area thoroughly with soap and water. Remove contaminated clothing. If skin irritation occurs: Get medical advice/attention.

Inhaled: Give fresh air, careful not to become a casualty yourself. Remove and loosen clothing. If breathing is normal make patient comfortable and keep warm till recovered. If breathing is difficult ensure the airways are clear and have a qualified person give oxygen from a face mask. If breathing has stopped commence (EAR) and if cardiac arrest has occurred, commence (CPR) and get medical advice/attention urgently.

Possible Symptoms: Acute

Delayed

Ingestion: Can result in headaches, nausea, vomiting and diarrhoea.

May cause irritation to the mucous membranes of the digestive system. May result in damage to the liver and kidney, blood disorders and may affect the central nervous system.

Eye: May cause redness, tearing or blurred vision.

Will cause discomfort and may cause redness, itching or blurred vision.

Skin: May cause skin irritation.

May cause dermatitis and eczema.

Inhaled: Vapour concentrations above exposure limits may be irritating to the respiratory tract, may cause headaches and dizziness. Prolonged exposure may result in unconsciousness.

Vapour concentrations above exposure limits may cause irritation to the mucous membranes of the respiratory system. May result in damage to the liver and kidney, blood disorders and may affect the central nervous system.

Advice To Doctor: Treat Symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Foam, Carbon Dioxide or Dry Chemical Powder.

Hazards from Combustion Products: If involved in a fire, toxic materials such as carbon monoxide, carbon dioxide, nitrogen oxide, isocyanate vapour, traces of hydrogen cyanide, hydrogen chloride gas, hydrogen fluoride gas, various chlorine and/or fluorine compounds as well as hydrocarbons may form.

Precautions for Firefighters: Heating can cause rupture of containers with explosive force. If safe do so, remove all sources of ignition and any containers from the path of the fire. Keep cool with water spray.

Firefighters should wear self contained breathing apparatus with a full face and operated in the positive pressure mode.

Hazchem Code: 3[Y]E

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: In case of an accidental release or spill, evacuate the danger area. Wear the correct Personal Protective Equipment (See section 8 of SDS). Do not breathe vapours. Extinguish all ignition sources and shut off the source of the spill. Ventilate the area.

Environmental Precautions: Avoid release to the environment by bunding or covering drains.

Containment: Contain and absorb the spill with absorbent material such as sand, soil or vermiculite. Transfer the material into drums, using non-sparking tools. Seal and label the drums. Contact the appropriate waste management authority for disposal.

7. HANDLING AND STORAGE

Precautions For Safe Handling: Wear the correct Personal Protective Equipment (See Section 8 of the SDS) when using this product. Ground the container and receiving equipment whilst using. Only use non-sparking tools and take precautionary measures against static discharge.

Only use in a well-ventilated area or preferably apply the product in a spray paint booth with an adequate exhaust system and explosion-proof electrical, ventilation, and lighting equipment.

Never eat, drink or smoke whilst handling this product. Always wash hands thoroughly after using this product and before smoking, eating, drinking or using the toilet.

Conditions For Safe Storage: Keep containers away from heat/sparks/open flames/ hot surfaces. Store containers in a well-ventilated area and away sources of ignition, oxidising agents and/or foodstuffs. Store containers in a cool place and out of direct sunlight. Keep containers tightly closed when not in use and check regularly for leaks.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

	OSHA PEL –TWA (mg/m ³)	NIOSH REL –TWA (mg/m ³)
p-Chlorobenzotrifluoride	Not Available	Not Available
Xylene	435	435
N-Butyl Acetate	710	710
N-Butanol	300	Not Available
Iso-Butanol	300	150
Solvent Naphtha (petroleum), light arom.	Not Available	Not Available

Engineering Controls: Ensure sufficient ventilation to maintain concentration below exposure standard. Keep containers sealed when not in use. Earth any mixing vessels when using this product. Apply the product in a spray paint booth with an adequate exhaust system and explosion-proof electrical, ventilation, and lighting equipment. The sprayer must wear a self-contained breathing apparatus, with a full face and operated in the positive pressure mode. If spray paint booth is unavailable and the product is used in a well ventilated area, then:

- the sprayer must wear a self-contained breathing apparatus, with a full face and operated in the positive pressure mode;
- the area must be well isolated from other persons, which may mean only the sprayer is at the workplace and everyone else has left. In this case, well isolated means there is no potential for anyone else at that workplace (or passing the workplace) to be exposed to the dust/fume/gas/mist/vapours/spray;
- and adequate time must be allowed after the spraying is completed before other persons enter the workplace - e.g. the following morning.

Personal Protection: Skin contact should be avoided by wearing impervious work clothing, boots and Neoprene or PVC gloves. Eyes should be protected by chemical goggles or safety glasses fitted with side shields (Refer to AS/NZS 1337). When using this product, a self-contained breathing apparatus, with a full face and operated in the positive pressure mode, must be used. (Refer to AS/NZS 1715 and 1716).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear viscous liquid.
Odour:	Strong solvent odour.
Odour Threshold:	Not Available
pH:	Not Applicable.
Melting Point/Freezing Point:	Not Applicable
Boiling Point Range:	96 – 145°C
Flash Point:	22°C (Closed Cup)
Evaporation Rate:	0.40 – 1.00 (Butyl Acetate = 1)
Flammability:	Highly flammable liquid and vapour.
Flammability Limits:	1 (LEL) to 11.2% (UEL) by volume
Vapour Pressure:	1.2 kPa @ 20°C
Vapour Density:	Not Available
Relative Density:	1.10 – 1.20
Solubility In Water:	Not Available
Partition Coefficient: n-octanol/water:	Not Available
Auto-ignition Temperature:	355°C
Decomposition Temperature:	Not Available
Viscosity:	<100 seconds F4 Cup @ 25°C

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under ordinary conditions of use and storage.

Conditions to Avoid: Avoid all ignition sources.

Incompatible Materials: None

Hazardous Decomposition Products: If involved in a fire, toxic materials such as carbon monoxide, carbon dioxide, nitrogen oxide, isocyanate vapour, traces of hydrogen cyanide, hydrogen chloride gas, hydrogen fluoride gas and various chlorine and fluorine compounds and hydrocarbons may form.

Hazardous Reactions: Not Applicable.

11. TOXICOLOGICAL INFORMATION

There is no data available on this product itself. The following information (where available) relates to the individual ingredients of the product.

Acute Toxicity – Oral:

Ingredient	Value (LD50)	Species	GHS Category
N-Butanol	790 mg/kg	Rat	4

Health Effects: Harmful if swallowed.

Acute: Can result in headaches, nausea, vomiting and diarrhoea.

Chronic: May cause irritation to the mucous membranes of the digestive system. May result in damage to the liver and kidney, blood disorders and may affect the central nervous system.

Acute Toxicity – Dermal:

Ingredient	Value (LD50)	Species	GHS Category
Xylene	>1700 mg/kg	Rabbit	4

Health Effects: Harmful in contact with skin.

Acute: Causes skin irritation.

Chronic: May cause dermatitis and eczema.

Acute Toxicity – Inhalation:

Ingredient	Value (LC50)	Species	GHS Category
Xylene	6350 ppm	Rat	4

Health Effects: Harmful if inhaled.

Acute: Vapour concentrations above exposure limits may be irritating to the respiratory tract, may cause headaches and dizziness. Prolonged exposure may result in unconsciousness.

Chronic: Vapour concentrations above exposure limits may cause irritation to the mucous membranes of the respiratory system. May result in damage to the liver and kidney, blood disorders and may affect the central nervous system.

Skin Corrosion/Irritation:	GHS Category
Xylene	2
N-Butanol	2
Iso-Butanol	2
p-Chlorobenzotrifluoride	2
N-Butyl Acetate	

Health Effects: Causes skin irritation.

Acute: Causes skin irritation.

Chronic: Repeated exposure may cause skin dryness and cracking. Also may cause dermatitis and eczema.

Eye Damage/Irritation:	GHS Category
N-Butanol	1
Iso-Butanol	2A

Health Effects: Causes serious eye damage.

Acute: Causes redness, tearing or blurred vision.

Chronic: Will cause discomfort and may cause redness, itching or blurred vision.

Respiratory or Skin Sensitation:	GHS Category
Not Available	

Health Effects:

Germ Cell Mutagenicity:	GHS Category
Not Available	

Health Effects:

Carcinogenicity:	GHS Category	ACGIH	EPA	IARC	NTP	NIOSH
Xylene	2	A4	I	3		
p-Chlorobenzotrifluoride	2			2B	YES	
N-Butanol	2		D			

Health Effects: Suspected of causing cancer.

Toxic To Reproduction:
Not Available

GHS Category

Health Effects:

Specific Target Organ Toxicity (Single Exposure):

GHS Category

N-Butanol

3

Iso-Butanol

3

N-Butyl Acetate

3

Health Effects: May cause drowsiness or dizziness. May cause respiratory irritation.

Specific Target Organ Toxicity (Repeated Exposure):

GHS Category

Not Available

Health Effects:

Aspiration Hazard

GHS Category

Solvent Naphtha (petroleum), light arom.

1

Health Effects: May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

Environmental Precautions: Avoid release to the environment, the product should not be allowed to enter drains, water courses or the soil.

There is no data available on this product itself. The following information (where available) relates to the individual ingredients of the product.

Hazardous To The Aquatic Environment – Acute Hazard:

Ingredient	Value (LC50)	Species	GHS Category
Not Available			

Effects:

Hazardous To The Aquatic Environment – Long Term Hazard:

Ingredient	Value (LC50)	Species	GHS Category
p-Chlorobenzotrifluoride	2.0 mg/L 48hr	Crustacean	3
p-Chlorobenzotrifluoride	3.0 mg/L 96hr	Fish	3
p-Chlorobenzotrifluoride	0.4 mg/L 72hr	Algae	3

Effects: Harmful to aquatic life with long lasting effects.

Exotoxic To Terrestrial Vertebrates:

Ingredient	Value (LD50)	Species	NZ Category
Not Available			

Effects:

Persistence and Degradability: No information available.

Bioaccumulative Potential: No information available.

Mobility in Soil: No information available.

13.DISPOSAL CONSIDERATIONS

Product and container should be disposed of in accordance with all local, regional, national and international 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.

14. TRANSPORT INFORMATION

DOT:

Shipping Name: PAINT
UN Number: 1263
Class: 3
Packaging Group II
Emergency Response 128

ADG (Land):

Shipping Name: PAINT
UN Number: 1263
Hazard Class: 3
Subsidiary Risk: Not Applicable
Packaging Group II
Hazchem 3[Y]E

IMGD (Sea):

Shipping Name: PAINT
UN Number: 1263
Hazard Class: 3
Subsidiary Risk: Not Applicable
Packaging Group: II
Marine Pollutant: No
EmS: F-E,S-E

ICAO/IATA (Air):

Shipping Name: PAINT
UN Number: 1263
Hazard Class: 3
Subsidiary Risk: Not Applicable
Packaging Group II

15. REGULATORY INFORMATION

Poisons Schedule: Schedule 5 - According to the Australian Standard for the Uniform Scheduling of Medicines and Poisons. (SUSMP)

HMIS Classification: Health Hazard: 2
Flammability: 3
Physical: 0
Reactivity: 0

NFPA Class: IB

WHMIS Classification: B2
D2A
D2B

Emergency Planning Community Right-To-Know (EPCRA)

SARA 302 Components: SARA 302: No chemicals in this product are subject to the reporting requirements of SARA Title III, Section 302

SARA 313 Components: SARA 313: This product contains the following chemicals which are subject to the reporting requirements of SARA Title III, Section 313

Chemical Entity / Hazardous Component	CAS Numbers
Xylene	1330-20-7
N-Butanol	71-36-3

Toxic Substances Control Act (TSCA)

TSCA Status: We certify that all of the components of this product are listed on the TSCA inventory.

Hazardous Air Pollutants:

Chemical Entity / Hazardous Component	CAS Numbers
Xylene	1330-20-7

Massachusetts Right-To-Know Components:

Chemical Entity / Hazardous Component	CAS Numbers
N-Butyl Acetate	123-86-4
Xylene	1330-20-7
N-Butanol	71-36-3
Iso-Butanol	78-83-1

Pennsylvania Right-To-Know Components:

Chemical Entity / Hazardous Component	CAS Numbers
N-Butyl Acetate	123-86-4
Xylene	1330-20-7
N-Butanol	71-36-3
Iso-Butanol	78-83-1

New Jersey Right-To-Know Components:

Chemical Entity / Hazardous Component	CAS Numbers
N-Butyl Acetate	123-86-4
Xylene	1330-20-7
N-Butanol	71-36-3
Iso-Butanol	78-83-1

California Prop. 65 Components:

Chemical Entity / Hazardous Component	CAS Numbers
p-Chlorobenzotrifluoride	98-56-6



“This product can expose you to chemicals including p-Chlorobenzotrifluoride (CAS No 98-56-6), which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.”

NPRI Components:

Chemical Entity / Hazardous Component	CAS Numbers
Solvent Naphtha (petroleum), light arom.	64742-95-6
N-Butyl Acetate	123-86-4
Xylene	1330-20-7
N-Butanol	71-36-3
Iso-Butanol	78-83-1

16. OTHER INFORMATION

Date of Issue: 04/27/20

Replaces Issue Dated:

The above information has been presented in good faith and is accurate to the best of our knowledge, at the time of preparation. All of the information supplied herein is related only to the health and safety issues of the product. Users should assume all responsibility for its use, as the conditions under which this product is used are beyond our control. For technical information on the use of this product users should consult the appropriate Technical Data Sheet.

END OF SDS