Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier
SAT 1010 Series (Die Cut)

1.2. Recommended use and restrictions on use

Recommended use
Automotive

1.3. Supplier's details

MANUFACTURER:	3M
DIVISION:	Automotive and Aerospace Solutions Division
ADDRESS:	3M Center, St. Paul, MN 55144-1000, USA
Telephone:	1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number
1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification
Serious Eye Damage/Irritation: Category 2B.
Skin Sensitizer: Category 1.

2.2. Label elements
Signal word
Warning

Symbols
Exclamation mark |

Pictograms



Hazard Statements

Causes eye irritation.
May cause an allergic skin reaction.

Precautionary Statements

Prevention:
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wear protective gloves.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.

Response:
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.

Disposal:
Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
REACTION PRODUCT: BISPHENOL-A-(EPICHLOROHYDRIN)	25068-38-6	60 - 80 Trade Secret *
COPOLYMER	Trade Secret*	7 - 13
EXTENDER	Trade Secret*	3 - 7
DICYANDIAMIDE	461-58-5	1 - 5
SCRIM OR MESH	None	< 5
ACCELERATOR	Trade Secret*	0.5 - 1.5
BUTYL ALCOHOL	71-36-3	< 0.3

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:
Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact:
Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

If Swallowed:
Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required
Not applicable.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media
In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

Hazardous Decomposition or By-Products

Substance	Condition
Aldehydes	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Hydrogen Chloride	During Combustion
Hydrogen Cyanide	During Combustion
Ammonia	During Combustion
Oxides of Nitrogen	During Combustion

5.3. Special protective actions for fire-fighters
Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. Evacuate area. Ventilate the area with fresh air.

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
For industrial/occupational use only. Not for consumer sale or use. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage including any incompatibilities
Store away from heat. Store away from amines.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits
If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
BUTYL ALCOHOL	71-36-3	ACGIH	TWA:20 ppm	
BUTYL ALCOHOL	71-36-3	OSHA	TWA:300 mg/m3(100 ppm)	
EXTENDER	Trade Secret	ACGIH	TWA(inhalable particulates):10 mg/m3	
EXTENDER	Trade Secret	ACGIH	TWA(respirable particles):3 mg/m3	
EXTENDER	Trade Secret	OSHA	TWA(as total dust):15 mg/m3	
EXTENDER	Trade Secret	OSHA	TWA(as total dust):50 millions of particles/cu. ft.(15 mg/m3);TWA(respirable fraction):15 millions of particles/cu. ft.(5 mg/m3)	
EXTENDER	Trade Secret	OSHA	TWA(respirable fraction):5 mg/m3	

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
OSHA : United States Department of Labor - Occupational Safety and Health Administration
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls
Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Indirect Vented Goggles

Skin/hand protection
Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.
Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Respiratory protection
None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Solid of very high viscosity
Color	White

Specific Physical Form:	Film
Odor	Odorless
Odor threshold	*No Data Available*
pH	*Not Applicable*
Melting point	*No Data Available*
Boiling Point	*No Data Available*
Flash Point	No flash point
Evaporation rate	*No Data Available*
Flammability (solid, gas)	Not Classified
Flammable Limits(LEL)	*No Data Available*
Flammable Limits(UEL)	*No Data Available*
Vapor Pressure	*No Data Available*
Vapor Density	*No Data Available*
Density	1.1 - 1.3 g/cm3
Specific Gravity	*No Data Available*
Solubility in Water	Insoluble
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	*No Data Available*
Decomposition temperature	*No Data Available*
Viscosity	100,000 - 1,000,000 Pa-s
Percent volatile	*No Data Available*

SECTION 10: Stability and reactivity

10.1. Reactivity
This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability
Stable. below 23°C

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
Heat

10.5. Incompatible materials
Amines

10.6. Hazardous decomposition products

Substance	Condition
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:
No health effects are expected.

Skin Contact:
Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye Contact:
Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion:
Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Toxicological Data
If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
REACTION PRODUCT: BISPHENOL-A-(EPICHLOROHYDRIN)	Dermal	Rat	LD50 > 1,600 mg/kg
REACTION PRODUCT: BISPHENOL-A-(EPICHLOROHYDRIN)	Ingestion	Rat	LD50 > 1,000 mg/kg
EXTENDER	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
EXTENDER	Ingestion	Professional judgement	LD50 estimated to be > 5,000 mg/kg
DICYANDIAMIDE	Dermal	Rabbit	LD50 > 10,000 mg/kg
DICYANDIAMIDE	Ingestion	Rat	LD50 > 30,000 mg/kg
ACCELERATOR	Dermal	Rabbit	LD50 > 2,000 mg/kg
ACCELERATOR	Ingestion	Rat	LD50 > 5,000 mg/kg
BUTYL ALCOHOL	Dermal	Rabbit	LD50 3,402 mg/kg
BUTYL ALCOHOL	Inhalation-	Rat	LC50 24 mg/l

	Vapor (4 hours)		
BUTYL ALCOHOL	Ingestion	Rat	LD50 2,290 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
REACTION PRODUCT: BISPHENOL-A-(EPICHLOROHYDRIN)	Rabbit	Mild irritant
DICYANDIAMIDE	Human and animal	Minimal irritation
ACCELERATOR	Rabbit	Minimal irritation
BUTYL ALCOHOL	Rabbit	Mild irritant

Serious Eye Damage/Irritation

Name	Species	Value
REACTION PRODUCT: BISPHENOL-A-(EPICHLOROHYDRIN)	Rabbit	Moderate irritant
DICYANDIAMIDE	Professional judgement	Mild irritant
ACCELERATOR	Rabbit	Mild irritant
BUTYL ALCOHOL	Rabbit	Severe irritant

Skin Sensitization

Name	Species	Value
REACTION PRODUCT: BISPHENOL-A-(EPICHLOROHYDRIN)	Human and animal	Sensitizing
DICYANDIAMIDE	Guinea pig	Not classified
BUTYL ALCOHOL	Human	Not classified

Respiratory Sensitization

Name	Species	Value
REACTION PRODUCT: BISPHENOL-A-(EPICHLOROHYDRIN)	Human	Not classified

Germ Cell Mutagenicity

Name	Route	Value
REACTION PRODUCT: BISPHENOL-A-(EPICHLOROHYDRIN)	In vivo	Not mutagenic
REACTION PRODUCT: BISPHENOL-A-(EPICHLOROHYDRIN)	In Vitro	Some positive data exist, but the data are not sufficient for classification
DICYANDIAMIDE	In Vitro	Not mutagenic
BUTYL ALCOHOL	In vivo	Not mutagenic
BUTYL ALCOHOL	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
REACTION PRODUCT: BISPHENOL-A-(EPICHLOROHYDRIN)	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
DICYANDIAMIDE	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure

					Duration
REACTION PRODUCT: BISPHENOL-A-(EPICHLOROHYDRIN)	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
REACTION PRODUCT: BISPHENOL-A-(EPICHLOROHYDRIN)	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
REACTION PRODUCT: BISPHENOL-A-(EPICHLOROHYDRIN)	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesis
REACTION PRODUCT: BISPHENOL-A-(EPICHLOROHYDRIN)	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	2 generation
DICYANDIAMIDE	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
DICYANDIAMIDE	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	44 days
DICYANDIAMIDE	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
BUTYL ALCOHOL	Ingestion	Not classified for female reproduction	Rat	NOAEL 5,000 mg/kg/day	premating & during gestation
BUTYL ALCOHOL	Inhalation	Not classified for male reproduction	Rat	NOAEL 18 mg/l	6 weeks
BUTYL ALCOHOL	Inhalation	Not classified for development	Rat	NOAEL 10.6 mg/l	during gestation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
BUTYL ALCOHOL	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
BUTYL ALCOHOL	Inhalation	respiratory irritation	May cause respiratory irritation	official classification	NOAEL Not available	
BUTYL ALCOHOL	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
REACTION PRODUCT: BISPHENOL-A-(EPICHLOROHYDRIN)	Dermal	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
REACTION PRODUCT: BISPHENOL-A-(EPICHLOROHYDRIN)	Dermal	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
REACTION PRODUCT: BISPHENOL-A-(EPICHLOROHYDRIN)	Ingestion	auditory system | heart | endocrine system | hematopoietic system | liver | eyes | kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
DICYANDIAMIDE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 6,822 mg/kg/day	13 weeks
BUTYL ALCOHOL	Inhalation	blood	Not classified	Rat	NOAEL 0.3 mg/l	3 months
BUTYL ALCOHOL	Inhalation	auditory system	Not classified	Human	NOAEL Not available	occupational exposure
BUTYL ALCOHOL	Inhalation	liver | kidney and/or bladder | respiratory system	Not classified	Guinea pig	NOAEL Not available	3 months
BUTYL ALCOHOL	Inhalation	nervous system	Not classified	Rat	NOAEL 9.09	13 weeks

					mg/l	
BUTYL ALCOHOL	Ingestion	blood	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks

Aspiration Hazard

Name	Value
BUTYL ALCOHOL	Some positive data exist, but the data are not sufficient for classification

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:

Physical Hazards
Not applicable

Health Hazards
Respiratory or Skin Sensitization
Serious eye damage or eye irritation

15.2. State Regulations

Contact 3M for more information.

California Proposition 65

Ingredient	C.A.S. No.	Listing
Lead	None	Female reproductive toxin
Lead	None	Male reproductive toxin
Lead	None	Carcinogen
Lead	None	Developmental Toxin

15.3. Chemical Inventories

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification
Health: 2 **Flammability:** 1 **Instability:** 1 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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