

Safety Data Sheet 90 Minute Panel Bond Adhesive - 1738 Part A

Version 1.0

Revision Date 08/14/2015

SECTION 1. IDENTIFICATION

Product Name : 90 Minute Panel Bond Adhesive
Product Number : 1738 Part A
Product Size : Kit: 207 ml / 7.0 fl oz US
Product Use : Epoxy Adhesive. For Professional and Industrial Use Only.
Not for sale to the general public.
Company : Transtar Autobody Technologies
2040 Heiserman Drive
Brighton, MI 48114
Telephone : (810) 220-3000
Web Site : www.tat-co.com

Emergency telephone numbers : CHEMTREC (US & Canada): 800-424-9300
: CHEMTREC INTERNATIONAL: 001-703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin irritation : Category 2
Eye irritation : Category 2A
Skin sensitisation : Category 1
Carcinogenicity : Category 2

GHS Label element

Hazard pictograms :



Signal word : Warning

Hazard statements : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear eye protection/ face protection.
P280 Wear protective gloves.
P281 Use personal protective equipment as required.

Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously 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/ attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.

Storage:
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Weight percent- Weight percent
Bisphenol A/ epichlorohydrin resin	25085-99-8	>= 65 - < 75
Diglycidyl ether of polypropylene glycol	26142-30-3	>= 10 - < 20
Bisphenol A - CTBN rubber adduct	68610-41-3	>= 3 - < 6
Neopentyl glycol diglycidyl ether	17557-23-2	>= 1 - < 3
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	2530-83-8	>= 1 - < 3

Glass, oxide, chemicals	65997-17-3	>= 1 - < 2
-------------------------	------------	------------

SECTION 4. FIRST AID MEASURES

- General advice : If you feel unwell, seek medical advice (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.
- Inhalation : If breathed in, move person into fresh air. If symptoms persist, call a physician. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- Skin contact : In case of contact, immediately flush skin with soap and plenty of water. Do NOT use solvents or thinners. If skin irritation persists, call a physician.
- Eye contact : Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion : If swallowed, seek medical advice immediately and show this container or label. If swallowed, DO NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position.

Notes to physician

- Treatment : Treat symptomatically and supportively.

SECTION 5. FIREFIGHTING MEASURES

- Form : paste
- Flash point : >100 °C (212 °F)
Method: ISO 3679
- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

- Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.
Hazardous decomposition products may be formed under fire conditions (see section 10).
Exposure to decomposition products may be a hazard to health.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.
- Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
In the event of fire and/or explosion do not breathe fumes.
Use water spray to cool unopened containers.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Refer to protective measures listed in sections 7 and 8.
Use personal protective equipment.
Avoid contact with skin and eyes.
Ensure adequate ventilation, especially in confined areas.
Avoid inhalation of vapour or mist.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
Avoid release to the environment. Refer to special instructions/ Safety data sheets.
- Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Safety Data Sheet

90 Minute Panel Bond Adhesive 1738 Part A

Version 1.0

Revision Date 08/14/2015

Keep in suitable, closed containers for disposal.
Clean contaminated surface thoroughly.

SECTION 7. HANDLING AND STORAGE

Handling

- Handling : For personal protection see section 8.
Do not breathe vapours or spray mist.
Avoid contact with skin and eyes.
Use appropriate container to avoid environmental contamination.
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
Dust explosion class : Not applicable

Storage

- Requirements for storage areas and containers : Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.
- Advice on common storage : Incompatible with strong acids and bases.
Incompatible with oxidizing agents.
- Other data : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components	CAS-No.	List	Type:	Value	Update
Diglycidyl ether of polypropylene glycol	26142-30-3	NIOSH REL ACGIH	TWA TWA	NE NE	

Safety Data Sheet

90 Minute Panel Bond Adhesive 1738 Part A

Version 1.0

Revision Date 08/14/2015

		OSHA Z-3	TWA	20 Million particles per cubic foot	2012-07-01
		OSHA P0	TWA	NE	
Neopentyl glycol diglycidyl ether	17557-23-2	NIOSH REL	TWA	NE	
		ACGIH	TWA	NE	
		OSHA Z-1	TWA	NE	
			TWA		
			TWA		
Glycidoxypropyltrimethoxy silane	2530-83-8	OSHA Z-1	TWA	NE	
		ACGIH	TWA	NE	
		OSHA P0	TWA	NE	
Glass, oxide, chemicals	65997-17-3	ACGIH	TWA	5 mg/m3	
		ACGIH	TWA	1 fibre/cm3	

- Engineering measures : Provide sufficient air exchange and/or exhaust in work rooms.
- Eye protection : Tightly fitting safety goggles
- Hand protection : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
Respirator with combination filter for vapour/particulate (EN 141)
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Avoid breathing vapours, mist or gas.
Avoid contact with skin, eyes and clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Follow the skin protection plan.
Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: paste
Physical state	: liquid
Colour	: translucent
Odour	: mild
Odour Threshold	: No data available
Flash point	: >100 °C (212 °F) Method: ISO 3679
Ignition temperature	: No data available
Thermal decomposition	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Flammability	: No data available
Molecular weight	: No data available
pH	: Not applicable
Boiling point/boiling range	: No data available
Vapour pressure	: No data available
Relative vapour density	: >1 (Air = 1.0)
Evaporation rate	: No data available
Density	: 1.13 - 1.18 g/cm ³
Relative density	: No data available
Bulk density	: No data available
Water solubility	: slightly soluble
Partition coefficient: n-octanol/water	: No data available
Solubility in other solvents	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available

Safety Data Sheet

90 Minute Panel Bond Adhesive 1738 Part A

Version 1.0

Revision Date 08/14/2015

Volatile organic compounds (VOC) content : < 0.75 %
< 10 g/l

SECTION 10. STABILITY AND REACTIVITY

Materials to avoid : Strong oxidizing agents
Incompatible with strong acids and bases.

Hazardous decomposition products : Carbon monoxide

Hazardous reactions : Note: No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Carcinogenicity : No data is available on the product itself.
Reproductive toxicity : No data is available on the product itself.
Teratogenicity : No data is available on the product itself.

Component:

Bisphenol A/ epichlorohydrin resin 25085-99-8

Skin irritation: Result: Irritating to skin.

Eye irritation: Result: Irritating to eyes.

Acute oral toxicity: LD50 Rat
Dose: > 10,000 mg/kg

Acute dermal toxicity: LD50 Rabbit
Dose: > 2000 mg/kg

Skin irritation: Rabbit
Result: No skin irritation

Eye irritation: Rabbit
Result: No eye irritation

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane 2530-83-8

Skin irritation: Result: Irritating to skin.

Eye irritation: Result: Irritation to eyes, reversing after 7 to 21 days

Safety Data Sheet

90 Minute Panel Bond Adhesive 1738 Part A

Version 1.0

Revision Date 08/14/2015

Acute oral toxicity: LD50 Rat

Dose: 24,200 mg/kg

Acute dermal toxicity: LD50 Rat

Dose: 4250 mg/kg

Carcinogenicity:

ACGIH

Glass, oxide, chemicals

65997-17-3

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

IARC

Glass, oxide, chemicals

65997-17-3

SECTION 12. ECOLOGICAL INFORMATION

Adsorbed organic bound : not included
halogens (AOX)

Volatile organic : < 0.75 %
compounds (VOC)
content

Additional ecological : The product should not be allowed to enter drains, water
information courses or the soil.

Component:

No data

SECTION 13. DISPOSAL CONSIDERATIONS

Adequate disposal : In accordance with local and national regulations.
Do not dispose of waste into sewer.
This material and its container must be disposed of as hazardous waste.
Do not dispose of together with household waste.

SECTION 14. TRANSPORT INFORMATION

DOT 49 CFR : UN 3082
ID No : Environmentally hazardous substance, liquid, n.o.s.
Proper shipping name

Safety Data Sheet

90 Minute Panel Bond Adhesive 1738 Part A

Version 1.0

Revision Date 08/14/2015

: (Bisphenol A, [3-(2,3-epoxypropoxy)propyl]trimethoxysilane)
Class : 9
Packing group : III
Labels : 9
Emergency Response : 171
Guidebook Number

TDGR

ID No : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Bisphenol A, [3-(2,3-epoxypropoxy)propyl]trimethoxysilane)
Class : 9
Packing group : III
Labels : 9

ICAO/IATA-DGR

ID No : UN 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(Bisphenol A, [3-(2,3-epoxypropoxy)propyl]trimethoxysilane)
Class : 9
Packaging group : III
ICAO-Labels : 9
Packing instruction (cargo aircraft) : 964
Packing instruction (passenger aircraft) : 964
Packing instruction (passenger aircraft) : Y964
Environmentally hazardous : no

IMDG-Code

ID No : UN 3082
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Bisphenol A, [3-(2,3-epoxypropoxy)propyl]trimethoxysilane)
Class : 9
Packaging group : III
IMDG-Labels : 9
EmS Number 1 : F-A
EmS Number 2 : S-F

Safety Data Sheet

90 Minute Panel Bond Adhesive 1738 Part A

Version 1.0

Revision Date 08/14/2015

Marine pollutant : yes

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard

PENN RTK US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

Components	CAS-No.
Bisphenol A / epichlorohydrin resin	25085-99-8

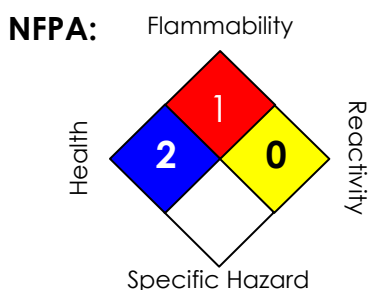
MASS RTK US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

Components	CAS-No.
None	N/A

NJ RTK US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

Components	CAS-No.
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	2530-83-8
Glass, oxide, chemicals	65997-17-3
Bisphenol A / epichlorohydrin resin	25085-99-8

California Prop. 65 : WARNING! This product contains a chemical known to the State of California to cause cancer.

SECTION 16. OTHER INFORMATION**Further information****HMIS III:**

HEALTH	3*
FLAMMABILITY	1
PHYSICAL	0

0 = Insignificant, 1 = Slight,
2 = Moderate, 3 = High, 4 = Extreme

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Prepared by : Transtar Autobody Technologies

Revision Date : 08/14/2015

Date of last issue : -

Date of first issue : 08/14/2015

Safety Data Sheet 90 Minute Panel Bond Adhesive 1738 Part B

Version 1.0

Revision Date 08/14/2015

SECTION 1. IDENTIFICATION

Product Name : 90 Minute Panel Bond Adhesive 1738 Part B
Product Number : 1738 Part B
Product Size : Kit: 207 ml / 7.0 fl oz US
Product Use Description : Epoxy Adhesive. For Professional and Industrial Use Only.
Company : Not for sale to the general public.
Transtar Autobody Technologies
2040 Heiserman Drive
Brighton, MI 48114
Telephone : (810) 220-3000
Web Site : www.tat-co.com
Emergency telephone numbers : CHEMTREC (US & Canada): 800-424-9300
: CHEMTREC INTERNATIONAL: 001-703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion : Category 1B
Serious eye damage : Category 1
Skin sensitisation : Category 1
Carcinogenicity : Category 2
Reproductive toxicity : Category 2

GHS Label element

Hazard pictograms : 

Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

Safety Data Sheet 90 Minute Panel Bond Adhesive 1738 Part B

Version 1.0

Revision Date 08/14/2015

H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P281 Use personal protective equipment as required.
Response:
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
Storage:
P405 Store locked up.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Weight percent- Weight percent
-----------	---------	-----------------------------------

Safety Data Sheet 90 Minute Panel Bond Adhesive 1738 Part B

Version 1.0

Revision Date 08/14/2015

Talc	14807-96-6	>= 15 - < 25
Amidoamine resin	68443-08-3	>= 35 - < 45
4-nonylphenol, branched	84852-15-3	>= 3 - < 7
Calcium metasilicate	13983-17-0	>= 15 - < 25
4,4'-isopropylidenediphenol	80-05-7	>= 1 - < 5
2,2'-iminodiethylamine	111-40-0	>= 4 - < 8
Glass, oxide, chemicals	65997-17-3	>= 0.5 - < 1.5

SECTION 4. FIRST AID MEASURES

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.
- Inhalation : If breathed in, move person into fresh air. If symptoms persist, call a physician. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- Skin contact : Do NOT use solvents or thinners. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Immediately flush skin with large amounts of water.
- Eye contact : Protect unharmed eye. Small amounts splashed into eyes can cause irreversible tissue damage and blindness. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion : If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. If a person vomits when lying on his back, place him in the recovery position.

Notes to physician

- Treatment : Treat symptomatically and supportively.

Safety Data Sheet 90 Minute Panel Bond Adhesive 1738 Part B

Version 1.0

Revision Date 08/14/2015

SECTION 5. FIREFIGHTING MEASURES

- Form : paste
Flash point : >100 °C (212 °F)
- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.
Hazardous decomposition products may be formed under fire conditions (see section 10).
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.
- Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
In the event of fire and/or explosion do not breathe fumes.
Use water spray to cool unopened containers.
Collect contaminated fire extinguishing water separately.
This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Refer to protective measures listed in sections 7 and 8.
Use personal protective equipment.
Avoid contact with skin and eyes.

Safety Data Sheet 90 Minute Panel Bond Adhesive 1738 Part B

Version 1.0

Revision Date 08/14/2015

Ensure adequate ventilation, especially in confined areas.
Avoid inhalation of vapour or mist.

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.
Clean contaminated surface thoroughly.

SECTION 7. HANDLING AND STORAGE

Handling

Handling : For personal protection see section 8.
Do not breathe vapours or spray mist.
Avoid contact with skin and eyes.
Use appropriate container to avoid environmental contamination.
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.
Dust explosion class : Not applicable

Storage

Requirements for storage areas and containers : Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.

Advice on common storage : Incompatible with acids and bases.
Incompatible with oxidizing agents.

Safety Data Sheet 90 Minute Panel Bond Adhesive 1738 Part B

Version 1.0

Revision Date 08/14/2015

Other data : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components	CAS-No.	List	Type:	Value	Update
Talc	14807-96-6	NIOSH REL	TWA	2 mg/m3	2013-10-08
		ACGIH	TWA	2 mg/m3	2013-03-01
		OSHA Z-3	TWA	20 Million particles per cubic foot	2012-07-01
		OSHA P0	TWA	2 mg/m3	1989-01-19
Calcium metasilicate	13983-17-0	ACGIH	TWA	3 mg/m3	respirable
		ACGIH	TWA	10 mg/m3	total dust
		OSHA Z-1	TWA	15 mg/m3	total dust
		OSHA Z-1	TWA	5 mg/m3	respirable
2,2'-iminodiethylamine	111-40-0	ACGIH	TWA	1 ppm	2013-03-01
		NIOSH REL	TWA	1 ppm ⁴ mg/m3	2013-10-08
4,4'-isopropylidenediphenol	80-05-7	OSHA Z-1	TWA	5 mg/m3	respirable
		ACGIH	TWA	5 mg/m3	
		OSHA P0	TWA	15 mg/m3	total dust
Glass, oxide, chemicals	65997-17-3	ACGIH	TWA	5 mg/m3	2010-03-01
		ACGIH	TWA	1 fibre/cm3	2010-03-01
		ACGIH	TWA	1 fibre/cm3	2010-03-01

Engineering measures : Provide sufficient air exchange and/or exhaust in work rooms.

Eye protection : Wear eye/face protection.
Ensure that eyewash stations and safety showers are close to the workstation location.

Hand protection
Glove material : Nitrile rubber

Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Safety Data Sheet 90 Minute Panel Bond Adhesive 1738 Part B

Version 1.0

Revision Date 08/14/2015

- Skin and body protection : Wear suitable protective clothing.
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
Respirator with combination filter for vapour/particulate (EN 141)
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Avoid breathing vapours, mist or gas.
Avoid contact with skin, eyes and clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Follow the skin protection plan.
Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : paste
Physical state : liquid
- Colour : Light grey
Odour : amine-like
Odour Threshold : No data available
Flash point : >100 °C (212 °F)
- Ignition temperature : No data available
Thermal decomposition : No data available
Lower explosion limit : No data available
Upper explosion limit : No data available
Flammability : No data available
Molecular weight : No data available
pH : No data available
- Melting point/range : No data available
- Boiling point/boiling range : No data available

Safety Data Sheet 90 Minute Panel Bond Adhesive 1738 Part B

Version 1.0

Revision Date 08/14/2015

Vapour pressure	: No data available
Relative vapour density	: >1 (Air = 1.0)
Evaporation rate	: No data available
Density	: 1.4 - 1.5 g/cm ³
Relative density	: No data available
Bulk density	: No data available
Water solubility	: slightly soluble
Partition coefficient: n-octanol/water	: No data available
Solubility in other solvents	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Volatile organic compounds (VOC) content	: < 3 % < 45 g/l

SECTION 10. STABILITY AND REACTIVITY

Materials to avoid	: Acids and bases Oxidizing agents Water
Hazardous decomposition products	: Carbon monoxide Nitrogen oxides (NO _x) Sulphur oxides
Hazardous reactions	: Note: No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute dermal toxicity	: Acute toxicity estimate Dose: > 5,000 mg/kg Method: Calculation method
-----------------------	--

Safety Data Sheet 90 Minute Panel Bond Adhesive 1738 Part B

Version 1.0

Revision Date 08/14/2015

Carcinogenicity : No data is available on the product itself.
Reproductive toxicity : No data is available on the product itself.
Teratogenicity : No data is available on the product itself.
Further information : If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

Component:

Talc	14807-96-6	<u>Acute oral toxicity</u> : LD50 Rat Dose: > 10,000 mg/kg <u>Acute inhalation toxicity</u> : LC50 Rat Dose: > 0.383 mg/l/Exposure time: 6 h <u>Skin irritation</u> : Rabbit Result: No skin irritation <u>Eye irritation</u> : Rabbit Result: No eye irritation
Amidoamine resin	68443-08-3	<u>Skin irritation</u> : Result: Causes burns. <u>Eye irritation</u> : Result: Corrosive.
4-nonylphenol, branched	84852-15-3	<u>Acute oral toxicity</u> : LD50 Dose: > 300 - 2,000 mg/kg <u>Skin irritation</u> : Result: Causes burns. <u>Reproductive toxicity</u> : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments., Suspected of damaging fertility. Suspected of damaging the unborn child.
4,4'-isopropylidenediphenol	80-05-7	<u>Eye irritation</u> : Result: Risk of serious damage to eyes. <u>Reproductive toxicity</u> : Suspected human reproductive toxicant Suspected of damaging fertility.
2,2'-iminodiethylamine	111-40-0	<u>Acute oral toxicity</u> : LD50 Rat Dose: 1,553 mg/kg <u>Acute dermal toxicity</u> : LD50 Rabbit Dose: 1,045 mg/kg

Safety Data Sheet 90 Minute Panel Bond Adhesive 1738 Part B

Version 1.0

Revision Date 08/14/2015

Acute inhalation toxicity: LC0 Rat
Dose: 0.07 mg/l/Exposure time: 4 h
Method: OECD Test Guideline 403

Skin irritation: Rabbit
Result: Causes burns.

Eye irritation: Rabbit
Result: Corrosive

Calcium metasilicate

13983-17-0

Acute oral toxicity: LD50
Rat Dose: > 2,000 mg/kg

Skin irritation: Rabbit
Result: No skin irritation

Eye irritation: Rabbit
Result: No eye irritation

Carcinogenicity:

ACGIH

Glass, oxide, chemicals

65997-17-3

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

Talc

14807-96-6

IARC

Glass, oxide, chemicals

65997-17-3

Safety Data Sheet 90 Minute Panel Bond Adhesive 1738 Part B

Version 1.0

Revision Date 08/14/2015

SECTION 12. ECOLOGICAL INFORMATION

Adsorbed organic bound halogens (AOX) : not included
Volatile organic compounds (VOC) content : < 3 %
Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

Component:

Talc	14807-96-6	<u>Toxicity to fish:</u> LC50 Species: Brachydanio rerio (zebrafish) Dose: > 100,000 mg/l Exposure time: 24 h
2,2'-iminodiethylamine	111-40-0	<u>Toxicity to fish:</u> LC50 Species: Poecilia reticulata (guppy) Dose: 0.43 g/l Exposure time: 96 h <u>Acute and prolonged toxicity for aquatic invertebrates:</u> EC50 Species: Daphnia magna (Water flea) Dose: 16 mg/l Exposure time: 48 h <u>Toxicity to algae:</u> ErC50 Species: Pseudokirchneriella subcapitata (microalgae) Dose: 1,164 mg/l Exposure time: 72 h <u>Toxicity to algae:</u> EbC50 Species: Pseudokirchneriella subcapitata (microalgae) Dose: 187 mg/l Exposure time: 72 h <u>Toxicity to algae:</u> NOEC Species: Pseudokirchneriella subcapitata (microalgae) Dose: 10 mg/l Exposure time: 72 h

Safety Data Sheet 90 Minute Panel Bond Adhesive 1738 Part B

Version 1.0

Revision Date 08/14/2015

Toxicity to bacteria:
Respiration inhibitionEC50
Species: Bacteria
Dose: 32.7 mg/l
Exposure time: 3 h
Method:

Toxicity to bacteria:
Respiration inhibitionNOEC
Species: Bacteria
Dose: 6 mg/l
Exposure time: 3 h
Method:

SECTION 13. DISPOSAL CONSIDERATIONS

Adequate disposal : In accordance with local and national regulations.
Do not dispose of waste into sewer.
This material and its container must be disposed of as hazardous waste.
Do not dispose of together with household waste.

Safety Data Sheet 90 Minute Panel Bond Adhesive 1738 Part B

Version 1.0

Revision Date 08/14/2015

SECTION 14. TRANSPORT INFORMATION

DOT 49 CFR

ID No : UN 1760
Proper shipping name : Corrosive liquids, n.o.s.
 : (4-nonylphenol, branched, 2,2'-iminodiethylamine)
Class : 8
Packing group : III
Labels : 8
Emergency Response : 154
Guidebook Number

TDGR

ID No : UN 1760
Proper shipping name : CORROSIVE LIQUID, N.O.S.
 : (4-nonylphenol, branched, 2,2'-iminodiethylamine)
Class : 8
Packing group : III
Labels : 8

ICAO/IATA-DGR

ID No : UN 1760
Proper shipping name : Corrosive liquid, n.o.s.
 : (4-nonylphenol, branched, 2,2'-iminodiethylamine)
Class : 8
Packaging group : III
ICAO-Labels : 8
Packing instruction (cargo : 856
aircraft)
Packing instruction : 852
(passenger aircraft)
Packing instruction : Y841
(passenger aircraft)
Environmentally hazardous : no

IMDG-Code

ID No : UN 1760
Description of the goods : CORROSIVE LIQUID, N.O.S.
 : (2,2'-iminodiethylamine, 4-nonylphenol, branched)

Safety Data Sheet 90 Minute Panel Bond Adhesive 1738 Part B

Version 1.0

Revision Date 08/14/2015

Class : 8
Packaging group : III
IMDG-Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B

Marine pollutant : yes

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard

PENN RTK US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

<u>Components</u>	<u>CAS-No.</u>
4,4'-isopropylidenediphenol	80-05-7
Talc	14807-96-6
4-nonylphenol, branched	84852-15-3
2,2'-iminodiethylamine	111-40-0
Amidoamine resin	68443-08-3

MASS RTK US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

<u>Components</u>	<u>CAS-No.</u>
4,4'-isopropylidenediphenol	80-05-7
Talc	14807-96-6
2,2'-iminodiethylamine	111-40-0

NJ RTK US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

<u>Components</u>	<u>CAS-No.</u>
4,4'-isopropylidenediphenol	80-05-7

Safety Data Sheet 90 Minute Panel Bond Adhesive 1738 Part B

Version 1.0

Revision Date 08/14/2015

Talc	14807-96-6
Glass, oxide, chemicals	65997-17-3
4-nonylphenol, branched	84852-15-3
2,2'-iminodiethylamine	111-40-0
Amidoamine resin	68443-08-3

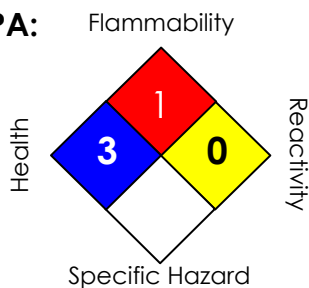
California Prop. 65

: WARNING! This product contains a chemical known to the State of California to cause cancer.

SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

HEALTH	3*
FLAMMABILITY	1
PHYSICAL	0

0 = Insignificant, 1 =Slight,
2 =Moderate, 3 =High, 4 = Extreme

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Prepared by : Transtar Autobody Technologies

Safety Data Sheet 90 Minute Panel Bond Adhesive 1738 Part B

Version 1.0

Revision Date 08/14/2015

Revision Date : 08/14/2015

Date of last issue : -

Date of first issue : 08/14/2015
