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l Identificatio	
· Product identij	fier
	Parabond M-355 Aerosol Spray Adhesive ified uses of the substance or mixture. Adhesive
	supplier of the safety data sheet
· Manufacturer	' <b>Supplier:</b> s and Specialty Polymers
863 Main Stree	
Simpsonville, S	
•	none Number: 864-967-7691
· Information d	epartment: Environment protection department.
2 Hazard(s) ia	lentification
	of the substance or mixture
	502 Flame
$\sim$	
Flam. Aerosol	1 H222 Extremely flammable aerosol.
GHS	508 Health hazard
Repr. 2	H361 Suspected of damaging fertility or the unborn child.
STOT RE 2	H373 May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1	H304 May be fatal if swallowed and enters airways.
GHS	.07
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2A	H319 Causes serious eye irritation.
STOT SE 3	H336 May cause drowsiness or dizziness.
· Label elements	
	<i>ments</i> The product is classified and labeled according to the Globally Harmonized System (GHS).
· Hazard pictog	ams
July 1	
GHS02 GH	IS07 GHS08
011502 011	
· Signal word D	
· Hazard statem	
Extremely flam	mable aerosol

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a	(Contd. of page 1)
Causes serious eye irritation.	
Suspected of damaging fertility or the unborn child.	
May cause drowsiness or dizziness.	
May cause damage to organs through prolonged or repeated exposure.	
May be fatal if swallowed and enters airways.	
· Precautionary statements	
If medical advice is needed, have product container or label at hand.	
Keep out of reach of children.	
Read label before use.	
Keep away from heat/sparks/open flames/hot surfaces No smoking.	
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physicia	
IF IN EYES: Rinse cautiously with water for several minutes. Remove conta	act lenses, if present and easy to do.
Continue rinsing.	
Store locked up.	
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122	
Dispose of contents/container in accordance with local/regional/national/in	nternational regulations.
· Classification system:	
· NFPA ratings (scale 0 - 4)	
$\begin{array}{c} Health = 2 \\ Fi \\ \end{array}$	
$\frac{2}{2} \frac{4}{1} Fire = 4$	
$\mathbf{Z} = \mathbf{I}$ <i>Reactivity</i> = 1	
· HMIS-ratings (scale 0 - 4)	
HEALTH <sup>12</sup> $Health = *2$	
FIRE $4$ Fire = 4	
<b>PHYSICAL HAZARD</b> Physical Hazard = 1	
• Other hazards	
• Results of PBT and vPvB assessment	
• <b>PBT:</b> Not applicable.	
· <b>vPvB</b> : Not applicable.	

• Chemical characterization: Mixtures • Description: Adhesive

· Dangerous components:		
67-64-1	acetone	10-25%
		10-25%
110-54-3	n-hexane	5-20%
115-10-6	dimethyl ether	5-20%

#### \*

# 4 First-aid measures

### · Description of first aid measures

- After inhalation:
- Supply fresh air or oxygen; call for doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.

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· After eye contact:

- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: Seek medical treatment.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- $\cdot$  Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

#### **5** *Fire-fighting measures*

- · Extinguishing media
- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Protective clothing and respiratory protective device.

#### **6** Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste in accordance with federal state and local regulations. Ensure adequate ventilation.

#### · Reference to other sections

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

### 7 Handling and storage

#### · Handling:

- · Precautions for safe handling
- Avoid prolonged or repeated contact with skin. Avoid contact with eyes.
- Wash thoroughly after handling.
- · Information about protection against explosions and fires:
- Keep ignition sources away Do not smoke.
- Protect against electrostatic charges.
- *Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.*
- Do not spray on a naked flame or any incandescent material.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- *Requirements to be met by storerooms and receptacles:* Store in a cool location away from direct heat. Observe official regulations on storing packagings with pressurized containers.
- Information about storage in one common storage facility: Store away from oxidizing agents.

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• Further information about storage conditions: Store receptacle in a well ventilated area. Protect from heat and direct sunlight.

• Specific end use(s) No further relevant information available.

# 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

#### · Control parameters

67-64-1 acetone (10-25%)

· Components with limit v	values that require	monitoring at the workplace:
---------------------------	---------------------	------------------------------

07-04-	1 accione (10-2370)
PEL	Long-term value: 2400 mg/m <sup>3</sup> , 1000 ppm
REL	Long-term value: 590 mg/m³, 250 ppm
TLV	Short-term value: (1782) NIC-1187 mg/m³, (750) NIC-500 ppm
	Long-term value: (1188) NIC-475 mg/m³, (500) NIC-200 ppm
	BEI
74-98-	6 propane (10-25%)
PEL	Long-term value: 1800 mg/m³, 1000 ppm
REL	Long-term value: 1800 mg/m³, 1000 ppm
TLV	refer to Appendix F: minimal oxygen content
110-54	1-3 n-hexane (5-20%)
PEL	Long-term value: 1800 mg/m <sup>3</sup> , 500 ppm
REL	Long-term value: 180 mg/m³, 50 ppm
TLV	Long-term value: 176 mg/m³, 50 ppm
	Skin; BEI
115-10	0-6 dimethyl ether (5-20%)
WEEL	Long-term value: 1000 ppm
· Ingrea	lients with biological limit values:
67-64-	1 acetone (10-25%)
BEI 5	0 mg/L
	Iedium: urine
	ime: end of shift
	arameter: Acetone (nonspecific)
110-54	1-3 n-hexane (5-20%)
	.4 mg/L
	Iedium: urine
	ime: end of shift at end of workweek
	arameter: 2.5-Hexanedione without hydrolysis
· Additi	onal information: The lists that were valid during the creation were used as basis.
· Expos	ure controls
	nal protective equipment (see listings below)
	al protective and hygienic measures:
	way from foodstuffs, beverages and feed.
Immed	liately remove all soiled and contaminated clothing.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

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· Breathing equipment:

Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  $\cdot$  *Material of gloves* 

Nitrile rubber, NBR

Chloroprene rubber, CR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

• **Penetration time of glove material** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### • Eye protection:

Safety glasses with side shields.



Tightly sealed goggles

· Body protection: Protective work clothing

#### 9 Physical and chemical properties · Information on basic physical and chemical properties · General Information · Appearance: Form: Liquid Whitish Color: · Odor: *Characteristic* · Odour threshold: Not determined. · pH-value: Not determined. · Change in condition Undetermined. Melting point: -44 °C (-47 °F) **Boiling point:** -104 °C (-155 °F) · Flash point: Not applicable. · Flammability (solid, gaseous): · Ignition temperature: 235 °C (455 °F) · Decomposition temperature: Not determined. · Auto igniting: Product is not selfigniting. · Danger of explosion: Not determined. · Flammable limits: 1.2 Vol % Lower: (Contd. on page 6)

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Upper:	18.6 Vol %
· Vapor pressure at 20 °C (68 °F):	8300 hPa (6226 mm Hg)
· Specific gravity at 20 °C (68 °F):	0.7051 g/cm <sup>3</sup> (5.884 lbs/gal)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wate	e <b>r):</b> Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
• Other information	No further relevant information available.

#### **10 Stability and reactivity**

#### · Reactivity

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions Reacts with oxidizing agents.
- · Conditions to avoid heat, flames, sparks, hot surfaces, ignition sources.
- · Incompatible materials: Reacts with oxidizing agents.
- · Hazardous decomposition products:
- Carbon monoxide and carbon dioxide Hydrocarbons

- 11 Toxicological information
  - $\cdot$  Information on toxicological effects
  - · Acute toxicity:
  - Primary irritant effect:
  - on the skin: Skin irritant.
  - $\cdot$  on the eye:
  - Irritating effect.
  - Vapors may be irritating to the eyes.
  - Sensitization: No sensitizing effects known.
  - · Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations: Irritant
- · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

# · NTP (National Toxicology Program)

None of the ingredients is listed.

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# **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- **Remark:** Harmful to fish
- Additional ecological information:
- · General notes: At present there are no ecotoxicological assessments.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

### **13 Disposal considerations**

- · Waste treatment methods
- · Recommendation: Must be specially treated adhering to official regulations.
- · Uncleaned packagings:

\*

• Recommendation: Disposal must be made according to official regulations.

UN-Number	
ADR	UN1950
UN proper shipping name	
ADR	1950 Aerosols
Transport hazard class(es)	
DOT	
Class	2.1 OPM D
Label	2.1 ORM-D
Label ADR	ORM-D
Label	
Label ADR Class	ORM-D 2.1

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• Transport in bulk according to Annex . MARPOL73/78 and the IBC Code	<b>II of</b> Not applicable.
· Transport/Additional information:	ORM-D - Material transported in aerosol cans, via domestic ground, is regulated as an ORM-D.
· IATA · Remarks:	CARGO AIRCRAFT ONLY
· UN "Model Regulation":	UN1950, Aerosols, 2.1

#### **15 Regulatory information**

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

110-54-3 n-hexane

• TSCA (Toxic Substances Control Act):

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity:

None of the ingredients is listed.

· (DSL) Canada Dosmestic Substance List

All components of this product are on the DSL(Canada Domestic Substance list) or are exempt from DSL requirements.

· Cancerogenity categories

67-64-1 acetone	1
110-54-3 n-hexane	1
· TLV (Threshold Limit Value established by ACGIH)	·
67-64-1 acetone	A
· MAK (German Maximum Workplace Concentration)	
None of the ingredients is listed.	
·NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	

• Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

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· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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#### **16 Other information**

Although the information and recommendations set forth in this MSDS are presented in good faith and are believed to be correct as of the date of this MSDS, Royal Adhesives & Sealants makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Royal Adhesives & Sealants or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the MSDS.

· Department issuing MSDS: Environment protection department.

· Creation Date: 01/08/2014

• Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

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