

Revision Number: 002.1 Issue date: 08/06/2018

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE EA 9891RP AERO PART A

QΤ

Product type: Adhesive for the Aerospace Industry

Restriction of Use: None identified

Company address: Henkel Corporation

One Henkel Way

Rocky Hill, Connecticut 06067

IDH number: 944960

Item number:AA9340016Region:United States

Contact information:

Telephone: +1 (860) 571-5100

MEDICAL EMERGÉNCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711

TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING: CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1

PICTOGRAM(S)



Precautionary Statements

Prevention: Avoid breathing dust or fumes. Wash affected area thoroughly after handling. Contaminated

work clothing should not be allowed out of the workplace. Wear protective gloves, eye

protection, and face protection.

Response: IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off

contaminated clothing.

Storage: Not prescribed

Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Epoxy resin	Proprietary	70 - 80
Modified epoxy resin	Unknown	10 - 20
Titanium dioxide	13463-67-7	0.1 - 1
Carbon black	1333-86-4	0.1 - 1

^{*} Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation: If inhaled, immediately remove the affected person to fresh air. If symptoms

develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and footwear. Immediately wash skin

thoroughly with soap and water. If symptoms develop and persist, get medical

attention.

Eye contact: In case of contact with the eyes, rinse immediately with plenty of water for 15

minutes, and seek immediate medical attention.

Ingestion: Get immediate medical attention. Do not induce vomiting.

Symptoms: See Section 11.

IDH number: 944960

Notes to physician: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear full protective clothing. Wear self-contained breathing apparatus.

Unusual fire or explosion hazards: May liberate large quantities of dense, foul-smelling smoke which may contain

unidentified toxic gasses.

Hazardous combustion products: Upon decomposition, this product emits carbon monoxide, carbon dioxide

and/or low molecular weight hydrocarbons. Oxides of nitrogen.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Wear appropriate

protective equipment and clothing during clean-up. Do not allow product to

enter sewer or waterways.

Clean-up methods: Scrape up spilled material and place in a closed container for disposal.

Dispose of according to Federal, State and local governmental regulations.

7. HANDLING AND STORAGE

Handling: For the Part A plus Part B adhesive mixture, follow curing schedule as

recommended in product literature. Do not heat Part A at temperatures greater than 100 °C (212 °F). This material may self-react at higher temperatures and cause an exotherm. The exotherm has the potential for release of excessive energy and toxic gasses. Empty containers retain product residue, so obey hazard warnings and handle empty containers as if they were full.

Storage: For safe storage, store at or below 29 °C (84.2 °F)

Keep container tightly closed and in a cool, well-ventilated place away from

incompatible materials.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Epoxy resin	None	None	None	None
Modified epoxy resin	None	None	None	None
Titanium dioxide	10 mg/m3 TWA	15 mg/m3 PEL Total dust. 15 MPPCF TWA Respirable fraction. 15 mg/m3 TWA Total dust. 50 MPPCF TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None
Carbon black	3 mg/m3 TWA Inhalable fraction.	3.5 mg/m3 PEL	None	None

Engineering controls: Ventilation should effectively remove and prevent buildup of any dust

generated from the handling of this product.

Respiratory protection: When dusts or thermal processing fumes are generated and ventilation is not

sufficient to effectively remove them, appropriate NIOSH/MSHA approved

respiratory protection must be provided.

Eye/face protection: Safety goggles or safety glasses with side shields.

Skin protection: Wear impervious gloves for prolonged contact. Use of impervious apron and

boots are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:SolidColor:BlackOdor:EpoxyOdor threshold:Not available.pH:Not available.Vapor pressure:Nil

Boiling point/range: Not determined Melting point/ range: Not applicable

Specific gravity: 1.03
Vapor density: >1

Flash point: > 93 °C (> 199.4 °F)
Flammable/Explosive limits - lower: Not available.
Flammable/Explosive limits - upper: Not available.
Autoignition temperature: Not applicable

IDH number: 944960 Product name: LOCTITE EA 9891RP AERO PART A QT

Flammability: Not applicable **Evaporation rate:** Not determined Solubility in water: Negligible Partition coefficient (n-octanol/water): Not determined

VOC content: < 10 g/l per SCAQMD Rule 1124 [EPA Test Method 24/304-91] (estimated)

Viscosity: Not available. **Decomposition temperature:** Not available.

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions: May occur.

Hazardous decomposition

products:

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low

molecular weight hydrocarbons. Oxides of nitrogen.

Incompatible materials: Keep away from strong oxidizing agents, strong Lewis or mineral acids.

Reactivity: Not available.

Conditions to avoid: Do not mix in batches greater than 200 grams (0.44 pounds) unless you plan to use

immediately. Do not heat mixed adhesive unless curing surfaces to be bonded. Failure to observe these precautions may result in excessive heat build-up causing an exotherm. The

exotherm has the potential for release of toxic gasses.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eves

Potential Health Effects/Symptoms

Inhalation: May cause respiratory tract irritation.

Skin contact: This product may cause irritation to the skin. This product may cause an allergic skin reaction.

Eye contact: This product may cause irritation to the eyes.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Epoxy resin	None	Allergen, Irritant
Modified epoxy resin	None	No Data
Titanium dioxide	None	Irritant, Respiratory, Some evidence of carcinogenicity
Carbon black	Oral LD50 (Rat) = > 8,000 mg/kg	Respiratory, Some evidence of carcinogenicity

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Epoxy resin	No	No	No
Modified epoxy resin	No	No	No
Titanium dioxide	No	Group 2B	No
Carbon black	No	Group 2B	No

12. ECOLOGICAL INFORMATION

Ecological information: Toxic to aquatic organisms

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number: Material, if discarded, is not expected to be a characteristic hazardous waste

under RCRA.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Not regulated

Hazard class or division: None Identification number: None Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Bisphenol-A Epichlorhydrin

resin)

Hazard class or division: 9
Identification number: UN 3077
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Bisphenol-A

Epichlorhydrin resin)

Hazard class or division:

Identification number: UN 3077

Packing group:

Marine pollutant: Bisphenol-A Epichlorhydrin resin

Exceptions: Classified per IMDG Amendment 34; Effective Jan 1, 2010.

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act

Inventory.

TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS:
CERCLA/SARA Section 311/312:
CERCLA/SARA Section 313:

None above reporting de minimis.
None above reporting de minimis.

California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This

product contains a chemical known to the State of California to cause birth defects or other

reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status: One or more components are not listed on, and are not exempt from listing on either the

Domestic Substances List or the Non-Domestic Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.



Revision Number: 002.8 Issue date: 12/27/2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE EA 9891RP AERO PART B

PT

Product type: Adhesive for the Aerospace Industry

Restriction of Use: None identified

Company address: Henkel Corporation

One Henkel Way

Rocky Hill, Connecticut 06067

IDH number: 944971

Item number:AB9340015Region:United States

Contact information:

Telephone: +1 (860) 571-5100

MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711

TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: HARMFUL IF SWALLOWED.

CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. MAY CAUSE AN ALLERGIC SKIN REACTION.

HAZARD CLASS	HAZARD CATEGORY
ACUTE TOXICITY ORAL	4
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1





Precautionary Statements

Prevention: Do not breathe dust or fumes. Wash affected area thoroughly after handling. Do not eat, drink

or smoke when using this product. Contaminated work clothing should not be allowed out of the

workplace. Wear protective gloves, clothing, eye and face protection.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF SWALLOWED: Rinse mouth. Do

NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse.

Storage: Store locked up.

Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
4-Tert-butylphenol	98-54-4	30 - 40
Trimethylhexane-1,6-diamine	25620-58-0	10 - 20
m-Phenylenebis(methylamine)	1477-55-0	10 - 20
Silicon dioxide	7631-86-9	10 - 20
4-Nonylphenol, branched	84852-15-3	1 - 5

^{*} Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation: If inhaled, immediately remove the affected person to fresh air. If symptoms

develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and footwear. Immediately wash skin

thoroughly with soap and water. If symptoms develop and persist, get medical

attention.

Eye contact: In case of contact with the eyes, rinse immediately with plenty of water for 15

minutes, and seek immediate medical attention.

Ingestion: Get immediate medical attention. Do not induce vomiting. Never give anything

by mouth to an unconscious person.

Symptoms: See Section 11.

Notes to physician: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear. Cartridge respirators do not provide adequate protection for fire

fighters or exotherm mitigation.

Unusual fire or explosion hazards: May liberate large quantities of dense, foul-smelling smoke which may contain

unidentified toxic gasses.

Hazardous combustion products: Upon decomposition, this product emits carbon monoxide, carbon dioxide

and/or low molecular weight hydrocarbons. Oxides of nitrogen.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Wear appropriate

protective equipment and clothing during clean-up. Do not allow product to

enter sewer or waterways.

Clean-up methods: Scrape up spilled material and place in a closed container for disposal.

Dispose of according to Federal, State and local governmental regulations.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. For the Part A plus Part B adhesive

mixture, follow curing schedule as recommended in product literature. Do not heat Part B at temperatures greater than 100 °C (212 °F). This material may self-react at higher temperatures and cause an exotherm. The exotherm has the potential for release of excessive energy and toxic gasses. Empty containers retain product residue, so obey hazard warnings and handle empty containers as if they were full. Do not cut, grind, weld, or drill on or near this

container.

Storage: For safe storage, store at or below 29 °C (84.2 °F)

Keep container tightly closed and in a cool, well-ventilated place away from

incompatible materials.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
4-Tert-butylphenol	None	None	None	None
Trimethylhexane-1,6-diamine	None	None	None	None
m-Phenylenebis(methylamine)	0.1 mg/m3 Ceiling (SKIN)	None	None	None
Silicon dioxide	6 mg/m3 TWA	20 MPPCF TWA 0.8 mg/m3 TWA	None	3 mg/m3 TWA Respirable fraction.
4-Nonviphenol, branched	None	None	None	None

Engineering controls: Ventilation should effectively remove and prevent buildup of any dust

generated from the handling of this product.

Respiratory protection: When dusts or thermal processing fumes are generated and ventilation is not

sufficient to effectively remove them, appropriate NIOSH/MSHA approved

respiratory protection must be provided.

Eye/face protection: Safety goggles or safety glasses with side shields.

Skin protection: Wear impervious gloves for prolonged contact. Use of impervious apron and

boots are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid White Color: Odor: Ammoniacal Not available. Odor threshold: Not determined pH: Vapor pressure: Not determined Boiling point/range: Not determined Melting point/ range: Not determined

Specific gravity: 0.5

IDH number: 944971

Vapor density: Not determined Flash point: > 93 °C (> 199.4 °F) Flammable/Explosive limits - lower: Not determined Flammable/Explosive limits - upper: Not determined Autoignition temperature: Not applicable Flammability: Not applicable **Evaporation rate:** Not determined Solubility in water: Negligible

Partition coefficient (n-octanol/water): Not determined

VOC content: < 10 g/l per SCAQMD Rule 1124 [EPA Test Method 24/304-91] (estimated) Viscosity: Not available.

Decomposition temperature: Not available.

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions: May occur.

Hazardous decomposition

products:

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low

molecular weight hydrocarbons. Oxides of nitrogen.

Incompatible materials: Keep away from strong oxidizing agents, strong Lewis or mineral acids.

Reactivity: Not available.

Conditions to avoid: Do not mix in batches greater than 200 grams (0.44 pounds) unless you plan to use

immediately. Do not heat mixed adhesive unless curing surfaces to be bonded. Failure to observe these precautions may result in excessive heat build-up causing an exotherm.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Inhalation: Inhalation of dusts of this product may cause severe irritation and burns to the respiratory tract.

Skin contact: This product is severely irritating to the skin and may cause burns. May cause allergic skin

reaction. May be harmful if absorbed through skin.

Eye contact: This product is severely irritating to the eyes and may cause irreversible damage including

burns and blindness.

Ingestion: Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the

digestive tract. May be harmful if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
4-Tert-butylphenol	None	Irritant, Allergen, Skin, Corrosive
Trimethylhexane-1,6-diamine	None	Allergen
m-Phenylenebis(methylamine)	None	Irritant, Liver, Kidney, Corrosive
Silicon dioxide	Oral LD50 (Rat) = > 22,500 mg/kg Oral LD50 (Mouse) = > 15,000 mg/kg	Nuisance dust

4-Nonylphenol, branched None Irritant, Corrosive

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number: This product, if discarded, may be characterized as a RCRA corrosive waste,

D002. Wastes must be tested using methods described in 40 CFR Part 261 to

determine if it meets applicable definitions of hazardous wastes.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Corrosive solids, n.o.s. (m-Xylylenediamine, Nonylphenol)

Hazard class or division:

Identification number:

Packing group:

Marine pollutant:

Nonylphenol

International Air Transportation (ICAO/IATA)

Proper shipping name: Corrosive solid, n.o.s. (m-Xylylenediamine, Nonylphenol)

Hazard class or division: 8
Identification number: UN 1759

Packing group:

Water Transportation (IMO/IMDG)

Proper shipping name: CORROSIVE SOLID, N.O.S. (m-Xylylenediamine, Nonylphenol)

Hazard class or division: 8
Identification number: UN 1759
Packing group: II

Marine pollutant: Nonylphenol

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act

Inventory.

TSCA 12 (b) Export Notification: Alkyl phenol (CAS# 84852-15-3).

CERCLA/SARA Section 302 EHS: None above reporting de minimis. CERCLA/SARA Section 311/312: Immediate Health, Delayed Health

CERCLA/SARA Section 313: This product contains the following toxic chemicals subject to the reporting requirements of

section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40

CFR 372). 4-Nonylphenol, branched (CAS# 84852-15-3).

California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

Prepared by: Mark Mau, Regulatory Affairs Specialist

Issue date: 12/27/2016

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IDH number: 944971 Product name: LOCTITE EA 9891RP AERO PART B PT

Prepared by: Regulatory Affairs

Issue date: 08/06/2018

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IDH number: 944960 Product name: LOCTITE EA 9891RP AERO PART A QT