

SECTION 1: Identification and Company Details

Product Name: 8200 Quick Bond Spray Adhesive
Product Code: 8200
Manufacturer/ Supplier: Roberts Consolidated Industries, Inc.
Address: 300 Cross Plains Blvd.
Dalton, GA 30721
Emergency Phone: (800) 424-9300 (24-hour Response / CHEMTREC)
Product Information: (706) 277-5294

SECTION 2: Hazard(s) Identification

OSHA / HCS Status: This material is considered hazardous by the OSHA Hazard. Communication Standard (29 CFR 1910.1200)
Physical hazards: Flammable aerosols Category 1
Health Hazards: Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Reproductive toxicity (fertility) Category 2
Specific target organ toxicity, single exposure Category 3 narcotic effect
Specific target organ toxicity, repeated exposure Category 2
Aspiration hazard Category 1
Signal Word: Danger
Hazard Statements: Extremely flammable aerosol
May be fatal if swallowed and enters airways
Causes skin irritation
Causes serious eye irritation
May cause drowsiness or dizziness
Suspected of damaging fertility
May cause damage to organs through prolonged or repeated exposure

Hazard Pictograms:


Precautionary Statements: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe gas. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

SECTION 3: Composition / Information on Ingredients

	<u>Weight %</u>	<u>CAS #</u>
Acetone	20 – 40	67-64-1
Propane	20 – 40	74-98-6
Dimethyl Ether	10 - 20	115-10-6
n-Hexane	10 - 20	110-54-3
2-Methylpentane	2.5 – 10	107-83-5
3-Methylpentane	1 - 2.5	96-14-0
Other components below reportable levels	10 - 20	

SECTION 4: First-Aid Measures

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin Contact:	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye Contact:	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion:	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effect, acute and delayed:	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed:	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information:	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

SECTION 5: Fire-Fighting Measures

Extinguishing Media:	Alcohol resistant foam. Dry powder. Carbon dioxide (CO ₂). DO NOT use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical:	Contents under pressure. Pressurized container may explode when exposed to heat or flame.
Protection of Firefighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face-shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Firefighting Instructions:	Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific Methods:	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.
General fire hazards:	Extremely flammable aerosol.

SECTION 6: Accidental Release Measures

Personal Precautions:	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Environmental Precautions:	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
Methods of Clean-up:	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and Storage

Precautions for Safe Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Should be handled in closed systems, if possible. Pregnant or breastfeeding women must not handle this product. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for Safe Storage: Level 2 Aerosol. Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8: Exposure Control / Personal Protection**OCCUPATIONAL EXPOSURE LIMITS:****US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Components	Type	Value
Dimethyl Ether (CAS 115-10-6)	STEL TWA	2 ppm 075 ppm

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Acetone (CAS 67-64-1)	PEL	2400 mg/m3 1000 ppm
n-Hexane (CAS 110-54-3)	PEL	1800 mg/m3 500 ppm
Propane (CAS 74-98-6)	PEL	1800 mg/m3 1000 ppm

US ACGIH Threshold Limit Values

Components	Type	Value
2-Methylpentane (CAS 107-83-5)	STEL	1000 ppm
3-Methylpentane (CAS 96-14-0)	TWA STEL	500 ppm 1000 ppm
Propane (CAS 74-98-6)	PEL	1800 mg/m3 1000 ppm
Acetone (CAS 67-64-1)	TWA	500 ppm 750 ppm
Dimethyl Ether (CAS 115-10-6)	STEL CEILING	500 ppm 0.3 ppm
n-Hexane (CAS 110-54-3)	PEL	50 ppm

US NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Acetone (CAS 67-64-1)	TWA	590 mg/m3 250 ppm
Dimethyl Ether (CAS 115-10-6)	CEILING TWA	0.1 ppm 0.016 ppm
n-Hexane (CAS 110-54-3)	PEL	180 mg/m3 50 ppm
Propane (CAS 74-98-6)	PEL	1800 mg/m3 1000 ppm

US Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
Dimethyl Ether (CAS 115-10-6)	TWA	1800 mg/m ³ 1000 ppm

BIOLOGICAL LIMIT VALUES:**ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*
n-Hexane (CAS 110-54-3)	0.4 mg/l	2,5-Hexanedion, without hydrolysi	Urine	*

* - For sampling details, please see the source document.

EXPOSURE GUIDELINES**US - California OELs - Skin designation**

n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

US ACGIH Threshold Limit Values - Skin designation

n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

Appropriate Engineering Controls:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual Protection Measures:**Eye/Face Protection:**

Wear safety glasses with side shields (or goggles).

Hand Protection:

Wear appropriate chemical resistant gloves. Skin protection

Skin Protection:

recommended.

Wear appropriate chemical resistant clothing. Use of an impervious apron is

Respiratory Protection:

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

Thermal Hazards:

Wear appropriate thermal protective clothing, when necessary.

General Hygiene:

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: Physical and Chemical Properties

Appearance:	Gas. Aerosol
Vapor Density:	Not determined
Odor:	Not determined
Relative Density:	Not determined
Odor Threshold:	Not determined
Solubility(ies):	Insoluble in water
pH:	Not determined
Partition Coefficient:	Not determined
Melting Point:	Not determined
Freezing Point:	Not determined
Auto-ignition Temperature:	Not determined
Flash Point:	> 156° F
Decomposition Temperature:	Not determined
Evaporation Rate:	Not determined
Viscosity:	Not determined
Flammability (Solid/Gas):	2.2% - 8.6%
Specific Gravity:	0.724
Upper/Lower Flammability:	Not determined
Vapor Pressure:	62 psig @70F estimated
Boiling Point:	50° C (122° F)

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur.
Conditions to Avoid:	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	No hazardous decomposition products are known.

SECTION 11: Toxicological Information

Acute Toxicity:	May be fatal if swallowed and enters airways. Narcotic effect.
Ingestion:	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Inhalation:	May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Narcotic effects. Prolonged inhalation may be harmful.
Skin contact:	Causes skin irritation.
Eye contact:	Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Toxic to aquatic life with long lasting effects.
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PRODUCT - Aer Spray Bond (CAS Mixture)

Category		Species	Test Results
Crustacea	EC50	Daphnia	91.7423 mg/l, 48 hours estimated*
Fish	LC50	Fish	17.8322 mg/l, 96 hours estimated*

COMPONENT - Acetone (CAS 67-64-1)

Category		Species	Test Results
Crustacea	EC50	Water flea (Daphnia magna)	21.6 - 23.9 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours

COMPONENT - Dimethyl Ether (CAS 115-10-6)

Category		Species	Test Results
Crustacea	EC50	Water flea (Daphnia pulex) Striped	4.3 - 7.8 mg/l, 48 hours
Fish	LC50	bass (Morone saxatilis)	10.302 - 16.743 mg/l, 96 hours

COMPONENT - n-Hexane (CAS 110-54-3)

Category		Species	Test Results
Fish	LC50	Fathead minnow (Pimephales promelas)	2.101 - 2.981 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and Degradability:	No data is available on the degradability of this product.
Bioaccumulative Potential:	No data available.
Partition Coefficient n-octanol / water (log Kow):	
	2-Methylpentane 3.74
	3-Methylpentane 3.6
	Acetone -0.24
	Dimethyl Ether 0.1 n-
	Hexane 3.9
	Propane 2.36
Mobility in Soil:	No data available.
Other Adverse Effects:	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal Considerations

Disposal Instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local Disposal Regulations	Dispose in accordance with all applicable regulations.
Hazardous Waste Code:	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
US RCRA Hazardous Waste U List:	Reference
Acetone (CAS 67-64-1)	U002
Waste from Residue/Unused Product:	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated Packaging:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14: Transport Information

DOT / IATA/ IMDG

UN Number:	UN 1950
UN Proper Shipping Name:	Aerosols, flammable
Transportation Hazard Class:	Class 2.1
	Subsidiary risk - None
	Label 2.1
Special precautions for user:	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Special Provisions:	N82
Packaging Exceptions:	306
Packaging Non Bulk:	None
Packaging Bulk:	None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

SECTION 15: REGULATORY INFORMATION

US federal regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4): Acetone (CAS 67-64-1) Listed.
 n-Hexane (CAS 110-54-3) Listed.

SARA 304 Emergency Release Notification: Not regulated.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard Categories:
 Immediate Hazard - Yes
 Delayed Hazard - Yes
 Fire Hazard - Yes
 Pressure Hazard - Yes
 Reactivity Hazard - No
SARA 302 Extremely Hazardous Substance: Phenol 108-95-2
SARA 311/312 Hazardous: None

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt
n-Hexane	110-54-3	10 - 20
Ethyl Benzene	100-41-4	0.01 - 0.1
Styrene	100-42-5	0.01 - 0.1

Other Federal Regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: n-Hexane (CAS 110-54-3)
 Clean Air Act (CAA) Section 112(r) Accidental Release Prevention
 (40 CFR 68.130): Dimethyl Ether (CAS 115-10-6) Propane (CAS 74-98-6)
 Safe Drinking Water Act (SDWA): Not regulated
 Drug Enforcement Administration (DEA). List 2, Essential Chemicals
 (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number: Acetone (CAS 67-64-1) 6532
 Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical
 Mixtures (21 CFR 1310.12(c)): Acetone (CAS 67-64-1) 35 %WV
 DEA Exempt Chemical Mixtures Code Number: Acetone (CAS 67-64-1) 6532

State Regulations:**US. Massachusetts RTK - Substance List**

2-Methylpentane (CAS 107-83-5)
 3-Methylpentane (CAS 96-14-0) Acetone (CAS 67-64-1)
 Dimethyl Ether (CAS 115-10-6) n-Hexane (CAS 110-54-3) Propane (CAS 74-98-6)

US. New Jersey Worker and Community Right-to-Know Act

2-Methylpentane (CAS 107-83-5) Acetone (CAS 67-64-1)
 Dimethyl Ether (CAS 115-10-6) n-Hexane (CAS 110-54-3) Propane (CAS 74-98-6)

US. Pennsylvania Worker and Community Right-to-Know Law

2-Methylpentane (CAS 107-83-5)
 3-Methylpentane (CAS 96-14-0) Acetone (CAS 67-64-1)
 Dimethyl Ether (CAS 115-10-6) n-Hexane (CAS 110-54-3) Propane (CAS 74-98-6)

US. Rhode Island RTK Acetone (CAS 67-64-1)

Dimethyl Ether (CAS 115-10-6)
 n-Hexane (CAS 110-54-3) Propane (CAS 74-98-6)

US. California Proposition 65

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

Inventories:

All components are on the Canadian DSL or exempt.
 All components of this product are on the US TSCA inventory

SECTION 16: Other Information

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Hazardous Products Regulation (WHMIS 2015)

Prepared by: Roberts Product Safety & Regulatory Compliance Group, (905) 791-4444

The information herein is given in good faith, but no warranty expressed or implied is made. Roberts urges users of this product to evaluate its suitability and compliance with local regulations as Roberts can neither foresee the final use of the product, nor the final location of usage.

Date of issue: 04/05/17