SAFETY DATA SHEET



1. Identification

Product identifier	Resin, Rpr Kit W/Mat * Qt	
Other means of identification		
Product Code	58005	
Recommended use	Liquid Hardener	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name Address	Quest Automotive Products 600 Nova Drive SE Massillon, OH 44646 United States	
Telephone E-mail Contact person	General Assistance rpandrus@quest-ap.com Ron Andrus	(330) 830-6000
Emergency phone number	CHEMTREC	(800) 424-9300

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
	Specific target organ toxicity, repeated exposure	Category 2
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Label elements



Signal word	Danger
Hazard statement	Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure.
Precautionary statement	
Prevention	Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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/doctor. Wash contaminated clothing before reuse.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	63% of the mixture consists of component(s) of unknown acute oral toxicity.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
2-Butanone peroxide		1338-23-4	30 to <40
2-butanone		78-93-3	1 to <5
Hydrogen peroxide		7722-84-1	1 to <5
Other components below reportable	elevels		60 to <70

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

4. First-alu measures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Abdominal pain. Burning pain and severe corrosive skin damage. Diarrhea. Nausea, vomiting. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	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.
5. Fire-fighting measures	
Suitable extinguishing media	Powder. Foam. Dry sand. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

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

2-butanone (CAS 78-93-3) PEL 590 mg/m3 200 ppm Hydrogen peroxide (CAS 7722-84-1) PEL 14 mg/m3 T722-84-1) 1 ppm US. ACGIH Threshold Limit Values Components Type Value 2-butanone (CAS 78-93-3) STEL 300 ppm 2-butanone peroxide (CAS Ceiling 0.2 ppm 2-butanone peroxide (CAS Ceiling 0.2 ppm 1338-23-4) 1 ppm VIS. NOSH: Pocket Guide to Chemical Hazards 200 ppm Components Type Value 2-butanone (CAS 78-93-3) STEL 865 mg/m3 300 ppm 2-butanone (CAS 78-93-3) STEL 865 mg/m3 200 ppm 2-butanone (CAS 78-93-3) STEL 865 mg/m3 200 ppm 2-butanone (CAS 78-93-3) STEL 865 mg/m3 200 ppm 1338-23-4) 0.2 ppm 300 ppm Hydrogen peroxide (CAS Ceiling 1.5 mg/m3 1338-23-4) 1.9 pm 1 Hydrogen peroxide (CAS TWA 1.9 ppm clogical limit values Codigeneral 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, for goggles) and a face shield.	Components		Туре	1	/alue
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 * - For sampling details, please see the source document. 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. dividual protection measures, such as personal protective equipment Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield. Skin protection Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Other Wear appropriate chemical resistant clothing. In case of insufficient ventilation, wear suitable respiratory equipment. 	Components	Value	Determinant	Specimen	Sampling Time
opropriate engineering introlsGood 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.dividual protection measures, Eye/face protectionwear safety glasses with side shields (or goggles) and a face shield.Skin protection Hand protection Beap response to the exponsional resistant gloves. Suitable gloves can be recommended by the glove supplier.Wear appropriate chemical resistant clothing.OtherWear appropriate chemical resistant clothing.In case of insufficient ventilation, wear suitable respiratory equipment.	2-butanone (CAS 78-93-3)	2 mg/l	MEK	Urine	*
introlsshould 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.dividual protection measures, Eye/face protectionsuch as personal protective equipment Wear safety glasses with side shields (or goggles) and a face shield.Skin protection Hand protectionWear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.Other Respiratory protectionWear appropriate chemical resistant clothing. In case of insufficient ventilation, wear suitable respiratory equipment.	* - For sampling details, plea	ase see the sourc	e document.		
Eye/face protectionWear safety glasses with side shields (or goggles) and a face shield.Skin protectionWear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.OtherWear appropriate chemical resistant clothing.Respiratory protectionIn case of insufficient ventilation, wear suitable respiratory equipment.		should be ma or other engir exposure limi	tched to conditions. If ap neering controls to mainta ts have not been establis	plicable, use plain airborne lev shed, maintain a	rocess enclosures, local exhaust ventilation, els below recommended exposure limits. If airborne levels to an acceptable level. Eye
Skin protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Other Wear appropriate chemical resistant clothing. Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.	lividual protection measure	s, such as perso	nal protective equipme	ent	
Hand protectionWear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.OtherWear appropriate chemical resistant clothing.Respiratory protectionIn case of insufficient ventilation, wear suitable respiratory equipment.	=	-			nd a face shield.
Supplier.OtherWear appropriate chemical resistant clothing.Respiratory protectionIn case of insufficient ventilation, wear suitable respiratory equipment.	Skin protection				
Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.	Hand protection		iate chemical resistant g	loves. Suitable	gloves can be recommended by the glove
Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.	Other	Wear approp	riate chemical resistant c	lothing.	
				-	atory equipment.
	Thermal hazards				

Keep away from food and drink. 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.

9. Physical and chemical properties

Appearance		
Physical state	Liquid.	
Form	Liquid.	
Color	Not available.	
Odor	Not available.	
Odor threshold	Not available.	
рН	Not available.	
Melting point/freezing point	Not available.	
Initial boiling point and boiling range	66.2 °F (19 °C) estimated	
Flash point	140.0 °F (60.0 °C)	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not applicable.	
Upper/lower flammability or exp	losive limits	
Flammability limit - lower (%)	Not available.	
Flammability limit - upper (%)	Not available.	
Explosive limit - lower (%)	Not available.	
Explosive limit - upper (%)	Not available.	
Vapor pressure	0.04 hPa estimated	
Vapor density	Not available.	
Relative density	Not available.	
Solubility(ies)		
Solubility (water)	Not available.	
Partition coefficient (n-octanol/water)	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	140 °F (60 °C)	
Viscosity	Not available.	
Other information		
Density	8.32 lbs/gal	
Flammability class	Combustible IIIA estimated	
Percent volatile	2.5 % estimated	
Specific gravity	1	
VOC	1.5 % estimated	
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 decomposition temperature. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation.
Skin contact	Causes severe skin burns.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns. Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Abdominal pain. Burning pain and severe corrosive skin damage. Diarrhea. Nausea, vomiting. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing.

Information on toxicological effects

Acute toxicity	Harmful if inhaled. Harmful if swallowe	d.
Components	Species	Test Results
2-butanone (CAS 78-93-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 8000 mg/kg
Inhalation		
LC50	Mouse	11000 ppm, 45 Minutes
	Rat	11700 ppm, 4 Hours
Oral		
LD50	Mouse	670 mg/kg
	Rat	2300 - 3500 mg/kg
2-Butanone peroxide (CAS 1338-	23-4)	
<u>Acute</u>	,	
Inhalation		
LC50	Mouse	170 mg/l, 4 Hours
	Rat	200 mg/l, 4 Hours
Oral		
LD50	Rat	6.86 ml/kg
* Estimates for product may b	be based on additional component data n	ot shown.
Skin corrosion/irritation	Causes severe skin burns and eye dar	
Serious eye damage/eye irritation	Causes serious eye damage.	
Respiratory or skin sensitizatio	n	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause	skin sensitization.
Germ cell mutagenicity	No data available to indicate product o mutagenic or genotoxic.	r any components present at greater than 0.1% are
Carcinogenicity	This product is not considered to be a	carcinogen by IARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overall	Evaluation of Carcinogenicity	
Hydrogen peroxide (CAS OSHA Specifically Regulate Not listed.	3 Not c ed Substances (29 CFR 1910.1001-1050	lassifiable as to carcinogenicity to humans.))
Reproductive toxicity	This product is not expected to cause i	eproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	May cause damage to organs through	prolonged or repeated exposure.
Aspiration hazard	Not an aspiration hazard.	

May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
2-butanone (CAS 78-9	3-3)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	4025 - 6440 mg/l, 48 hours
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus)	> 400 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.
Disconstructed and a structure	

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)				
2-butanone	0.29			
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.			

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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.
Waste from residues / unused products	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	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

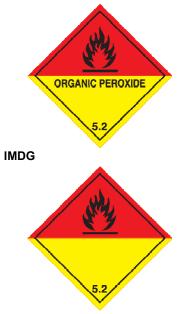
14. Transport information

DOT	
UN number	UN3105
UN proper shipping name	Organic Peroxide Type D, Liquid (Methyl Ethyl Ketone Peroxide <45%)
Transport hazard class(es)	
Class	5.2
Subsidiary risk	-
Packing group	Not applicable.
Special precautions for user	• Read safety instructions, SDS and emergency procedures before handling.
Packaging exceptions	152
ΙΑΤΑ	
UN number	UN3105
UN proper shipping name	Organic Peroxide Type D, Liquid (Methyl Ethyl Ketone Peroxide <45%)
Transport hazard class(es)	
Class	5.2
Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	No.
Special precautions for user	• Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed.
aircraft	
Cargo aircraft only	Allowed.

IMDG

UN number	UN3105
UN proper shipping name	Organic Peroxide Type D, Liquid (Methyl Ethyl Ketone Peroxide <45%)
Transport hazard class(es)	
Class	5.2
Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	F-J, S-R
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and	Not established.
the IBC Code	

DOT; IATA



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)

	`	, i ,
Not regulated.		
CERCLA Hazardous Subs	stance List (40 CFR 302	.4)
2-butanone (CAS 78-9	3-3)	Listed.
2-Butanone peroxide (Listed.	
SARA 304 Emergency rel	ease notification	
Hydrogen peroxide (C/	AS 7722-84-1)	1000 LBS
OSHA Specifically Regula	ated Substances (29 CF	R 1910.1001-1050)
Not listed.		
Superfund Amendments and	Reauthorization Act of	1986 (SARA)
Hazard categories	Immediate Hazard -	Yes
	Delayed Hazard - Ye	es
	Fire Hazard - No	
	Pressure Hazard - N	lo

Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Hydrogen peroxide	7722-84-1	1000	1000 lbs		
SARA 311/312 Hazardou chemical	s No				
SARA 313 (TRI reporting Not regulated.)				
er federal regulations					
Clean Air Act (CAA) Sec	tion 112 Hazardo	ous Air Polluta	nts (HAPs) List		
Not regulated.					
Clean Air Act (CAA) Sec	tion 112(r) Accid	lental Release	Prevention (40 CFR 6	8.130)	
Not regulated.					
Safe Drinking Water Act (SDWA)	Not regulate	eu.			
Drug Enforcement A Chemical Code Num		DEA). List 2, Es	sential Chemicals (21	CFR 1310.02(b) and 1	310.04(f)(2) and
2-butanone (CAS			6714		2(-))
-	-	DEA). LIST 1 & 2	-	xtures (21 CFR 1310.1	2(C))
2-butanone (CAS DEA Exempt Chemic	,	le Number	35 %WV		
2-butanone (CAS			6714		
state regulations			••••		
US. California Controlled	l Substances C	A Department	of Justice (California	Health and Safety Cod	le Section 11100)
Not listed.					
US. California. Candidate (a))	e Chemicals Lis	t. Safer Consur	ner Products Regulat	ions (Cal. Code Regs,	tit. 22, 69502.3, subd.
2-butanone (CAS 78-	,				
US. Massachusetts RTK		t			
2-butanone (CAS 78-					
2-Butanone peroxide Hydrogen peroxide (C					
US. New Jersey Worker		Right-to-Know	Act		
2-butanone (CAS 78-	-	0			
2-Butanone peroxide	(CAS 1338-23-4)	1			
Hydrogen peroxide (C					
US. Pennsylvania Worke		ty Right-to-Kno	ow Law		
2-butanone (CAS 78- 2-Butanone peroxide	,				
Hydrogen peroxide (C					
US. Rhode Island RTK	/				
2-butanone (CAS 78-	93-3)				
2-Butanone peroxide)			
Hydrogen peroxide (C					
US. California Propositic California Safe Drinkin any chemicals current	ng Water and To			on 65): This material is ı	not known to contain
rnational Inventories	-				
Country(s) or region	Inventory r	name			On inventory (yes/no
Australia	-		mical Substances (AIC	S)	Y Y
Canada		ubstances List (,	Y
Canada		stic Substances			Ý
China			ical Substances in Chir	na (IECSC)	Y
onina	inventory 0	- LAISting OHEIII			1.

European Inventory of Existing Commercial Chemical Substances (EINECS)

Europe

Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	04-07-2015
Version #	01
HMIS® ratings	Health: 3* Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 3 Flammability: 0 Instability: 0
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