PURE

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product identifier Pure Reflections 2.1VOC Clrct

Version # 01

 Issue date
 07-28-2015

 Supersedes date
 06-25-2015

 CAS #
 Mixture

 Product Code
 PR201-G

Product use Automotive Refinish Clearcoat

Manufacturer information Pure Reflections

A division of IAMG/International Autobody Marketing Group

1505 N. Hayden Road, Ste. 111 Scottsdale, Arizona 85257

United States I.fields@iamgaz.com

INFORMATION 1-87-REFINISH CHEMTREC 1-800-424-9300

Supplier Not available.

2. Hazards Identification

Emergency overview DANGER

Flammable liquid - may release vapors that form flammable mixtures at or above the flash point. Will be easily ignited by heat, spark or flames. Heat may cause the containers to explode. Cancer

hazard. Irritating to eyes and skin.

Prolonged exposure may cause chronic effects.

Potential health effects

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.

Eyes Contact with eyes may cause irritation. Avoid contact with eyes.

Skin May cause skin irritation. Avoid contact with the skin.

Inhalation May cause cancer by inhalation. May cause irritation of respiratory tract. Prolonged inhalation may

be harmful. Do not breathe dust/fume/gas/mist/vapors/spray.

Ingestion Irritating. May cause nausea, stomach pain and vomiting. Do not ingest.

Chronic effects Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. **Signs and symptoms** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Potential environmental effects
Components of this product are hazardous to aquatic life. May cause long-term adverse effects in

the environment.

3. Composition / Information on Ingredients

Components	CAS#	Percent
Acetone	67-64-1	15 - 40
N-butyl Acetate	123-86-4	5 - 10
Xylene	1330-20-7	3 - 7
Ethylbenzene	100-41-4	1 - 5
Methyl Acetate	79-20-9	1 - 5
Other components below reportable levels		40 - 70

Material name: Pure Reflections 2.1VOC Clrct PR201-G Version #: 01 Issue date: 07-28-2015

4. First Aid Measures

First aid procedures

Inhalation Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the

substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way

valve or other proper respiratory medical device. Get medical attention, if needed.

Skin contact Take off immediately all contaminated clothing. Wash off immediately with soap and plenty of

water. Get medical attention if irritation develops and persists. For minor skin contact, avoid

spreading material on unaffected skin.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO

NOT delay irrigation or attempt to remove the lens. Continue rinsing. Get medical attention if

irritation develops and persists.

Ingestion Rinse mouth thoroughly. Never give anything by mouth to a victim who is unconscious or is having convulsions. If ingestion of a large amount does occur, call a poison control center immediately.

Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim indested the substance. Induce artificial respiration with the aid of a pocket mask equipped

with a one-way valve or other proper respiratory medical device.

Notes to physician

In case of shortness of breath, give oxygen. Symptoms may be delayed.

General advice In case of shortness of breath, give oxygen. If you feel unwell, seek medical advice (show the label

where possible). Get medical attention if symptoms occur. 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. Keep victim under observation. Keep victim warm.

5. Fire Fighting Measures

Flammable properties Flammable by WHMIS criteria. Heat may cause the containers to explode. Vapors may travel

considerable distance to a source of ignition and flash back.

Extinguishing media

Suitable extinguishing

media

Powder. Alcohol resistant foam. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

Protection of firefighters

Specific hazards arising

from the chemical

Protective equipment for

firefighters

Fire may produce irritating, corrosive and/or toxic gases.

Firefighters should wear full protective clothing including self contained breathing apparatus.

Fire fighting equipment/instructions

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. In the event of fire, cool tanks with water spray. Withdraw immediately in case of rising

sound from venting safety device or any discoloration of tanks due to fire. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Some of these materials, if spilled, may evaporate leaving a flammable residue.

Explosion data

Sensitivity to static

discharge

Not available.

Sensitivity to mechanical

impact

Not available.

Hazardous combustion

products

Not available.

6. Accidental Release Measures

Personal precautions Consider initial downwind evacuation for at least 500 meters (1/3 mile). Keep unnecessary

personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed

spaces before entering them. For personal protection, see section 8 of the MSDS.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.

Methods for cleaning up

Extinguish all flames in the vicinity. Should not be released into the environment.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. 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. Clean up in accordance with all applicable regulations. For waste disposal, see section 13 of the MSDS.

Other information

Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. All equipment used when handling the product must be grounded. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. When using do not eat or drink. Do not use in areas without adequate ventilation. Wear personal protective equipment. Wash thoroughly after handling. Avoid release to the environment.

Storage

Do not handle or store near an open flame, heat or other sources of ignition. Keep at temperature not exceeding 49 °C. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a closed container away from incompatible materials. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Use care in handling/storage. Store away from incompatible materials (see Section 10 of the MSDS).

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
Methyl Acetate (CAS 79-20-9)	STEL	250 ppm	
	TWA	200 ppm	
N-butyl Acetate (CAS 123-86-4)	STEL	200 ppm	
	TWA	150 ppm	
Xylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	
Canada. Alberta OELs (Occupati	onal Health & Safety Code, Sc	nedule 1, Table 2)	
Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	1800 mg/m3	

	.) 0		
Acetone (CAS 67-64-1)	STEL	1800 mg/m3	
		750 ppm	
	TWA	1200 mg/m3	
		500 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	543 mg/m3	
		125 ppm	
	TWA	434 mg/m3	
		100 ppm	
Methyl Acetate (CAS 79-20-9)	STEL	757 mg/m3	
,		250 ppm	
	TWA	606 mg/m3	

Canada. Alberta OELs (Occupatio		The state of the s
components	Туре	Value
		200 ppm
l-butyl Acetate (CAS 23-86-4)	STEL	950 mg/m3
•		200 ppm
	TWA	713 mg/m3
		150 ppm
(ylene (CAS 1330-20-7)	STEL	651 mg/m3
		150 ppm
	TWA	434 mg/m3
		100 ppm
canada. British Columbia OELs. (cafety Regulation 296/97, as ame		s for Chemical Substances, Occupational Health and
components	Туре	Value
cetone (CAS 67-64-1)	STEL	500 ppm
	TWA	250 ppm
thylbenzene (CAS 00-41-4)	TWA	20 ppm
Nethyl Acetate (CAS	STEL	250 ppm
9-20-9)	TWA	200 ppm
hutyl Acetate (CAS	TWA	
l-butyl Acetate (CAS 23-86-4)	LVVA	20 ppm
(ylene (CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm
anada. Manitoba OELs (Reg. 217	7/2006, The Workplace Safety	And Health Act)
components	Туре	Value
cetone (CAS 67-64-1)	STEL	750 ppm
	TWA	500 ppm
thylbenzene (CAS 00-41-4)	TWA	20 ppm
lethyl Acetate (CAS	STEL	250 ppm
9-20-9)	TWA	200 ppm
Lhutyl Acotato (CAS	STEL	200 ppm
-butyl Acetate (CAS 23-86-4)		•
	TWA	150 ppm
(ylene (CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm
anada. Ontario OELs. (Control o	•	<u> </u>
omponents	Туре	Value
cetone (CAS 67-64-1)	STEL	750 ppm
	TWA	500 ppm
thylbenzene (CAS 00-41-4)	STEL	125 ppm
,	TWA	100 ppm
lethyl Acetate (CAS	STEL	250 ppm
9-20-9)		
I but I Acatat - 1040	TWA	200 ppm
I-butyl Acetate (CAS	STEL	200 ppm
23-86-4)	TWA	150 ppm
(vlana (CAS 1220 20 7)		
(ylene (CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm
	-	ing the Quality of the Work Environment) Value
canada. Quebec OELs. (Ministry of components	of Labor - Regulation Respecti Type STEL	

Components	Туре	Value	
	TWA	1190 mg/m3	
		500 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	543 mg/m3	
		125 ppm	
	TWA	434 mg/m3	
		100 ppm	
Methyl Acetate (CAS 79-20-9)	STEL	757 mg/m3	
		250 ppm	
	TWA	606 mg/m3	
		200 ppm	
N-butyl Acetate (CAS 123-86-4)	STEL	950 mg/m3	
		200 ppm	
	TWA	713 mg/m3	
		150 ppm	
Xylene (CAS 1330-20-7)	STEL	651 mg/m3	
		150 ppm	
	TWA	434 mg/m3	
		100 ppm	
US. OSHA Table Z-1 Limits for Ai	ir Contaminants (29 CFR 1910.	1000)	
Components	Type	Value	
Acetone (CAS 67-64-1)	PEL	2400 mg/m3	
		1000 ppm	
Ethylbenzene (CAS 100-41-4)	PEL	435 mg/m3	
		100 ppm	
Methyl Acetate (CAS 79-20-9)	PEL	610 mg/m3	
		200 ppm	
N-butyl Acetate (CAS 123-86-4)	PEL	710 mg/m3	
		150 ppm	
Xylene (CAS 1330-20-7)	PEL	435 mg/m3	
Aylene (0/10 1000 20 1)		G	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time	
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*	
Ethylbenzene (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*	
Xylene (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*	

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

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. Ensure adequate ventilation, especially in confined areas.

100 ppm

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection Wear suitable protective clothing. Wear protective gloves.

Respiratory protection Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release,

exposure levels are not known, or any other circumstances where air-purifying respirators may not

provide adequate protection.

Hand protection Wear protective gloves.

9. Physical & Chemical Properties

Appearance

Physical state Liquid. Form Liquid.

Color Clear colorless or nearly colorless

Odor Solvent.
Odor threshold Not available.
pH Not available.

Vapor pressure 124.26 hPa estimated

Vapor density Not available.

Boiling point 132.89 °F (56.05 °C) estimated **Melting point/Freezing point** -138.46 °F (-94.7 °C) estimated

Solubility (water) Not available.

Specific gravity 1.02

Relative density Not available.

Flash point -4.0 °F (-20.0 °C) estimated

Flammability limits in air, upper, % by volume

12.8 % estimated

Flammability limits in air,

lower, % by volume

1.4 % estimated

Auto-ignition temperature 797 °F (425 °C) estimated

VOC 1.1 lbs/gal Material

2.6 lbs/gal Regulatory 136 g/l Material 308 g/l Regulatory

Evaporation rate Not available.

Percent volatile 68.19 %

Partition coefficient Not available.

(n-octanol/water)

Other data

Density 8.48 lbs/gal

10. Chemical Stability & Reactivity Information

Chemical stability Risk of explosion.

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong acids. Strong oxidizing agents. Nitrates. Halogens.

Hazardous decomposition

products

Not available.

Possibility of hazardous

Hazardous polymerization does not occur.

reactions

11. Toxicological Information

Toxicological data

Components Species Test Results

Acetone (CAS 67-64-1)

Acute Dermal

LD50 Rabbit 20000 mg/kg

Material name: Pure Reflections 2.1VOC Clrct PR201-G Version #: 01 Issue date: 07-28-2015

Components	Species	Test Results
		20 ml/kg
Inhalation		
LC50	Rat	76 mg/l, 4 Hours
		50.1 mg/l, 8 Hours
Oral		
LD50	Mouse	3000 mg/kg
	Rabbit	5340 mg/kg
	Rat	5800 mg/kg
Ethylbenzene (CAS 100-41-4)		
Acute		
 Dermal		
LD50	Rabbit	17800 mg/kg
Oral		
LD50	Rat	3500 mg/kg
Methyl Acetate (CAS 79-20-9)		
<u>Acute</u>		
Oral		
LD50	Rabbit	3.7 g/kg
N-butyl Acetate (CAS 123-86-4)		
<u>Acute</u>		
Inhalation		
LC50	Wistar rat	160 mg/l, 4 Hours
Oral		
LD50	Rat	14000 mg/kg
Xylene (CAS 1330-20-7)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 43 g/kg
Inhalation		
LC50	Mouse	3907 mg/l, 6 Hours
	Rat	6350 mg/l, 4 Hours
Oral		
LD50	Mouse	1590 mg/kg
	Rat	3523 - 8600 mg/kg
Acute effects		
Sensitization	Not available.	
Chronic effects		eria. Prolonged inhalation may be harmful. Prolonged exposure may
Carcinogenicity	Hazardous by WHMIS crite	eria. Cancer hazard.
ACGIH Carcinogens	,	
Acetone (CAS 67-64-1)	A4 Not classifiable as a human carcinogen.
Ethylbenzene (CAS 10		
Xylene (CAS 1330-20-		A4 Not classifiable as a human carcinogen.
	II Evaluation of Carcinogenic	-
Ethylbenzene (CAS 10 Xylene (CAS 1330-20-		2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans.

Not available.

Not available.

Skin corrosion/irritation

Serious eye damage/irritation

Mutagenicity Not available.

Reproductive effects Components in this product have been shown to cause birth defects and reproductive disorders in

laboratory animals.

Teratogenicity Components in this product have been shown to cause birth defects and reproductive disorders in

laboratory animals.

Synergistic materials Not available.

12. Ecological Information

Ecotoxicological data

Components		Species	Test Results
Acetone (CAS 67-64-1)			
Aquatic			
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
Ethylbenzene (CAS 100-41-4)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.37 - 4.4 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	7.5 - 11 mg/l, 96 hours
Methyl Acetate (CAS 79-20-9)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	295 - 348 mg/l, 96 hours
N-butyl Acetate (CAS 123-86-4)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	17 - 19 mg/l, 96 hours
Xylene (CAS 1330-20-7)			
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	7.711 - 9.591 mg/l, 96 hours
Contavialty	Compon	anta of this product are bazardous to equatio life	

Ecotoxicity Components of this product are hazardous to aquatic life.

Environmental effects Harmful to aquatic organisms. An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Aquatic toxicity Not available.

Persistence and degradability Not available.

Partition coefficient

 Acetone
 -0.24

 Ethylbenzene
 3.15

 Methyl Acetate
 0.18

 N-butyl Acetate
 1.78

 Xylene
 3.12 - 3.2

13. Disposal Considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Dispose in accordance with all applicable

regulations.

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

TDG

UN number UN1263

UN proper shipping name Paint, Paint Related Material

Transport hazard class(es)

Class 3 Subsidiary risk Packing group Ш

Environmental hazards Not available.

Special precautions for user Read safety instructions, MSDS and emergency procedures before handling.

IATA

UN1263 **UN** number

UN proper shipping name Transport hazard class(es)

Paint, Paint Related Material

Class 3 Subsidiary risk Ш Packing group

Environmental hazards No. **ERG Code** 3H

Special precautions for user Read safety instructions, MSDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only Allowed.

IMDG

UN1263 **UN** number

UN proper shipping name

Paint, Paint Related Material

Transport hazard class(es) **Class** 3 Subsidiary risk Ш

Packing group Environmental hazards

Marine pollutant No. **EmS** F-E, S-E

Special precautions for user Read safety instructions, MSDS and emergency procedures before handling.

IATA; IMDG; TDG



15. Regulatory Information

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

WHMIS status Controlled

WHMIS classification B2 - Flammable Liquids

D2A - Other Toxic Effects-VERY TOXIC D2B - Other Toxic Effects-TOXIC

WHMIS labeling





International Inventories

Country(s) or region Inventory name On inventory (yes/no)* Australia Australian Inventory of Chemical Substances (AICS)

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

HMIS® ratings Health: 2*

Flammability: 3 Physical hazard: 0

NFPA ratings Health: 2

Flammability: 3 Instability: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA BELIEVED TO BE RELIABLE AND THE MANUFACTURER DISCLAIMS ANY LIABILITY INCURRED FROM THE USE OR RELIANCE UPON THE SAME. 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. This safety information is not a license to use this material as claimed by any patents of third parties. The user alone must finally determine whether a contemplated use of this

material will infringe any such patents, and for obtaining any required licenses.

Prepared by Not available.

Material name: Pure Reflections 2.1VOC Clrct PR201-G Version #: 01 Issue date: 07-28-2015

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).