FETY DATA SHEET		
remARC <sup>™</sup> SHIE		COMPONENT A
sion 1.0 Date 02/0	8/2023	
TION 1. PRODUCT AND CO		
Product name CAS Number:	PremARC <sup>™</sup> SHIEL COMPONENT A	
Chemical characterization	:	
Chemical Name	- 영양 관광장	
Synonyms	Constraints	
Identified uses	COATING	
Identified uses	: Fuel blending; Fu	uel additive
Prohibited uses	:	
	American Recycli	ng Center Inc
Company	<ul> <li>Decision Company</li> </ul>	
	Customer	
Telephone	Customer Product Safety	
	800-424-9300	CHEMTREC 24 Hour Emergency
Emergency telephone		
	End of the State	
TION 2. HAZARDS IDENTI	FICATION	
GHS Classification		
Flammable liquids		Category 2
Acute toxicity; Inhalation		Category 4
Specific target organ syste Acute aquatic toxicity	emic toxicity - single exp	cosure Category 3 Category 3
GHS Classification Scale (1=	severe hazard; 4= slig	nt hazard)
Label elements		
Hazard symbols :		
Hazard symbols :		
	· Danger	
Signal Word	: Danger	
		mmable liquid and vapor. inhaled.
Signal Word	: H225 Highly flan H332 Harmful if H335 May caus	inhaled. e respiratory irritation.
Signal Word	: H225 Highly flan H332 Harmful if H335 May caus	inhaled. e respiratory irritation. e drowsiness or dizziness.

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Precautionary Statements	<ul> <li>No smoking.</li> <li>P233 Keep containe</li> <li>P243 Take precaution</li> <li>P261 Avoid breathin</li> <li>P280 Wear protection</li> <li>Protection/ face prote</li> <li>Response</li> <li>P370 + P378 In case</li> <li>alcohol-resistant foan</li> </ul>	onary measures against static of g dust/ fume/ gas/ mist/ vapors /e gloves/ protective clothing/ e ction. e of fire: Use dry sand, dry che n to extinguish.	dischar s/ spray eye mical c
	keep at rest in a posit P312 Call a POISO	ALED: Remove victim to fresh ion comfortable for breathing. N CENTER or doctor/ physiciar	
	feel unwell. <b>Storage</b> P403 + P235 Store i P405 Store locked u	n a well-ventilated place. Keep	o cool.
Other hazards			
Hazards Not Otherwise Cla Repeated exposure may c		king.	
Repeated exposure may c	ause skin dryness or crack	king.	
Repeated exposure may c omposition/information on in stances	ause skin dryness or crack ngredients	king.	
Repeated exposure may c omposition/information on in stances Chemical nature	ause skin dryness or crack	king.	
Repeated exposure may c omposition/information on in stances Chemical nature Ingredients	ause skin dryness or crack ngredients : Substance	- 	
Repeated exposure may c omposition/information on in stances Chemical nature Ingredients Chemical Name	ause skin dryness or crack ngredients Substance CAS-No. EC-No.	king. Weight %	
Repeated exposure may c omposition/information on in stances Chemical nature Ingredients	ause skin dryness or crack ngredients Substance CAS-No.	- 	
Repeated exposure may c omposition/information on in stances Chemical nature Ingredients Chemical Name	ause skin dryness or crack ngredients Substance CAS-No. EC-No.	Weight %	
Repeated exposure may c omposition/information on in stances Chemical nature Ingredients Chemical Name Tert-Butyl acetate	ause skin dryness or crack ngredients Substance CAS-No. EC-No. 540-88-5	<u>Weight %</u> 10-30 %	
Repeated exposure may c omposition/information on in stances Chemical nature Ingredients Chemical Name Tert-Butyl acetate Tert-Butyl alcohol	ause skin dryness or crack ngredients : Substance CAS-No. EC-No. 540-88-5 75-65-0 107-39-1	<u>Weight %</u> 10-30 % <0.5 %	
Repeated exposure may c omposition/information on in stances Chemical nature Ingredients Chemical Name Tert-Butyl acetate Tert-Butyl alcohol 2,4,4-Trimethyl-1-pentene PROPRIETARY RESIN	ause skin dryness or crack ngredients : Substance CAS-No. EC-No. 540-88-5 75-65-0 107-39-1	Weight %           10-30 %           <0.5 %	
Repeated exposure may c omposition/information on in stances Chemical nature Ingredients Chemical Name Tert-Butyl acetate Tert-Butyl alcohol 2,4,4-Trimethyl-1-pentene PROPRIETARY RESIN INORGANIC ACID TRADE SE	ause skin dryness or crack ngredients : Substance CAS-No. EC-No. 540-88-5 75-65-0 107-39-1	Weight %           10-30 %           <0.5 %	
Repeated exposure may c omposition/information on in stances Chemical nature Ingredients Chemical Name Tert-Butyl acetate Tert-Butyl alcohol 2,4,4-Trimethyl-1-pentene PROPRIETARY RESIN INORGANIC ACID TRADE SE	ause skin dryness or crack ngredients : Substance CAS-No. EC-No. 540-88-5 75-65-0 107-39-1	Weight %           10-30 %           <0.5 %	
Repeated exposure may c omposition/information on in stances Chemical nature Ingredients Chemical Name Tert-Butyl acetate Tert-Butyl alcohol 2,4,4-Trimethyl-1-pentene PROPRIETARY RESIN INORGANIC ACID TRADE SE	ause skin dryness or crack ngredients : Substance CAS-No. EC-No. 540-88-5 75-65-0 107-39-1	Weight %           10-30 %           <0.5 %	

First aid procedures	
General advice	<ul> <li>Take proper precautions to ensure your own health and safe before attempting rescue and providing first aid.</li> <li>Consult a physician/doctor if necessary.</li> <li>Show this material safety data sheet to the doctor in attendance.</li> </ul>
If inhaled	<ul> <li>If overcome by exposure, remove victim to fresh air immediately.</li> <li>Give oxygen or artificial respiration as needed.</li> <li>Call a physician.</li> </ul>
In case of skin contact	<ul> <li>Remove contaminated clothing as needed.</li> <li>Wash skin thoroughly with mild soap and water.</li> <li>Flush with lukewarm water for 15 minutes.</li> <li>If sticky, use waterless cleaner first.</li> <li>Seek medical attention if ill effect or irritation develops.</li> </ul>
In case of eye contact	Thoroughly flush the eyes with large amounts of clean low- pressure water for at least 15 minutes, occasionally lifting th upper and lower eyelids. If irritation persists, seek medical attention.
If swallowed	<ul> <li>If large quantity swallowed, give lukewarm water (pint/ 1/2 litre) if victim completely conscious/alert.</li> <li>Do not induce vomiting. Risk of damage to lungs exceeds poisoning risk.</li> <li>Obtain emergency medical attention.</li> </ul>
Notes to physician	
Symptoms	<ul> <li>If inhalation occurs signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath and/or fever.</li> <li>High doses may cause CNS depression (fatigue, dizziness and possibly loss of concentration, with collapse, coma and death in cases of severe over-exposure).</li> <li>The onset of respiratory symptoms may be delayed for several hours after exposure.</li> </ul>
Hazards	: Can cause pulmonary edema if aspirated into lungs. Harmful: may cause lung damage if swallowed.
Treatment	<ul> <li>Treat symptomatically. Treatment of overexposure should be directed at the contro symptoms and the clinical condition of the patient. In case of ingestion, the stomach should be emptied by gas lavage under qualified medical supervision.</li> </ul>

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TION 5. FIRE-FIGHTING ME	ASURES
Flammable properties	
Flash point	: 39 °F (4 °C) at 1013.0 hPa (759.8 mm Hg)
Autoignition temperature	: 1092 °F (589 °C) at 1,013 hPa (760 mm Hg)
Lower explosion limit	: ~1.26 vol%
Upper explosion limit	: ~6.88 vol%
Flammability (solid, gas)	: Not applicable
Fire fighting	
Suitable extinguishing media	SMALL FIRE: Use dry chemicals, CO2, water spray or alcohol-resistant foam. LARGE FIRE: Use water spray, wa fog or alcohol-resistant foam.
Unsuitable extinguishing media	: Do not use solid water stream - may spread fire.
Further information	<ul> <li>Collect contaminated fire extinguishing water separately. The must not be discharged into drains.</li> <li>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.</li> <li>For safety reasons in case of fire, cans should be stored separately in closed containments.</li> <li>Use a water spray to cool fully closed containers.</li> </ul>
Protective equipment and p	precautions for firefighters
Specific hazards during fire fighting	<ul> <li>Releases flammable vapors below normal ambient temperatures.</li> <li>When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined.</li> <li>Flammable vapors may be heavier than air and travel long distances along the ground before igniting and flashing bac to vapor source.</li> <li>Move containers from fire area if it can be done without risk Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.</li> <li>Cool containers with flooding quantities of water until well a fire is out.</li> <li>Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.</li> <li>Always stay away from tanks engulfed in fire.</li> <li>For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.</li> </ul>
Special protective equipment	: Wear positive pressure self-contained breathing apparatus 4 / 15

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for fire-fighters	(SCBA). Structural firefighter's protective clothing will only provide limited protection.
CTION 6. ACCIDENTAL RELI	EASE MEASURES
Personal precautions	: Use personal protective equipment. Ensure adequate ventilation.
Environmental precautions	<ul> <li>Prevent product from entering drains.</li> <li>Prevent further leakage or spillage if safe to do so.</li> <li>If the product contaminates rivers and lakes or drains inform respective authorities.</li> </ul>
Methods for containment / Methods for cleaning up	<ul> <li>Extremely flammable.</li> <li>Eliminate all sources of ignition.</li> <li>All equipment used when handling this product must be grounded.</li> <li>Do not touch or walk through spilled material.</li> <li>Stop leak if you can do it without risk.</li> <li>Prevent entry into waterways, sewers, basements or confine areas.</li> <li>A vapor suppressing foam may be used to reduce vapors.</li> <li>Absorb or cover with dry earth, sand or other non-combustit material and transfer to containers.</li> <li>Use clean non-sparking tools to collect absorbed material.</li> <li>Dike large spills and place materials in salvage containers.</li> <li>Water spray may reduce vapor; but may not prevent ignition closed spaces.</li> </ul>
Additional advice	See section 8 for additional PPE information.
CTION 7. HANDLING AND ST	ORAGE
Handling	
Advice on safe handling	<ul> <li>Use only non-sparking tools. Extinguish all ignition sources. Carefully vent any internal pressure before removing closure Containers must be properly grounded before beginning transfer. Handle empty containers with care; vapor/residue may be flammable. All equipment must conform to applicable electrical code. This material may attack some forms of plastics, rubbers, ar coatings. Isolate, vent, drain, wash and purge systems or equipment before maintenance or repair. Check atmosphere for explosiveness and oxygen deficiencie Wear recommended personal protective equipment. Observe precautions pertaining to confined space entry. Do not breathe vapors or spray mist.</li> </ul>
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Advice on protection against fire and explosion	<ul> <li>Keep away from heat/sparks/open flames/hot surfaces Ne smoking.</li> <li>Take precautionary measures against static discharge.</li> </ul>
Storage	
Requirements for storage areas and containers	<ul> <li>Store closed drums with bung in up position.</li> <li>Store only in tightly closed, properly vented containers awa from heat, sparks, open flame and strong oxidizing agents. Containers must be properly grounded before beginning transfer.</li> <li>This material may attack some forms of plastics, rubbers, a coatings.</li> <li>Consult supplier(s) of these materials for specific recommendations.</li> <li>Steel drums are recomended for packaging.</li> </ul>

# 8. Exposure controls/personal protection

### **Control parameters**

# Ingredients with workplace control parameters

# **Occupational Exposure Limits**

Ingredients	CAS-No.	Туре	Limit Value	Basis	Additional
				Revision Date	Information
Tert-Butyl acetate	540-88-5	TWA	200 ppm	US (ACGIH) 2012	
-					
Tert-Butyl acetate	540-88-5	IDLH	1,500 ppm	NIOSH September 2007	
	Remarks: 10%	% LEL			
Tert-Butyl acetate	540-88-5	TWA	200 ppm 950 mg/m3	US (OSHA) June 23, 2006	
Tert-Butyl alcohol	75-65-0	TWA	100 ppm	US (ACGIH) 2012	
Tert-Butyl alcohol	75-65-0	IDLH	1,600 ppm	NIOSH September 2007	
Tert-Butyl alcohol	75-65-0	TWA	100 ppm 300 mg/m3	US (OSHA) June 23, 2006	

Consult local authorities for acceptable exposure limits.

# Exposure controls

### **Engineering measures**

Both local exhaust and good general room ventilation must be provided not only to control exposure but also to prevent formation of flammable mixtures.

### Personal protective equipment

Respiratory protection		nen workers are facing concentrations above the exposure it they must use appropriate certified respirators.
Hand protection		ear chemical resistant gloves such as: tyl rubber.
Eye and face protection		e splash goggles when eye contact due to splashing or raying liquid is possible.
Skin and body protection	bo	pending on the conditions of use, protective gloves, apron, ots, head and face protection should be worn. e equipment must be cleaned thoroughly after each use.
Hygiene measures	be of pe ha du En av Us Wa fac	lection of appropriate personal protective equipment should based on an evaluation of the performance characteristics the protective equipment relative to the task(s) to be formed, conditions present, duration of use, and the zards and/or potential hazards that may be encountered ring use. hergency eye wash fountains and safety showers should be ailable in the immediate vicinity of any potential exposure. e good personal hygiene practices. ash hands before eating, drinking, smoking, or using toilet silities. ash clothing frequently.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical state	: liquid
Color	Clear, colorless or Pigmented color
Odor	: Camphor-like odor.
Odor Threshold	: 71 ppb
Safety data	
Flash point	: 39 °F (4 °C) at 1013.0 hPa (759.8 mm Hg)
Lower explosion limit	: ~1.26 vol%
	1110
	_

Linear contrators that	5 C 00	
Upper explosion limit		
Flammability (solid, gas)	Not applicable	
Oxidizing properties	Not considered an oxidizing agent.	
Autoignition temperature	i 1092 °F (589 °C) at 1,013 hPa (760 mm Hg)	
Molecular weight	: 116.16 g/mol	
Decomposition temperature	: not determined	
pH Melting point/freezing point	6 - 7 -72.67 °F (-58.15 °C) at 1,013 hPa (760 mm Hg)	
Boiling point/boiling range	208.0 °F (97.8 °C) at 1,013 hPa (760 mm Hg)	
Vapor pressure	55.995 hPa (42.000 mm Hg) at 68 °F (20 °C)	
Density	३ 1.07 g/cm3 at 77 °F (25 °C)	
Water solubility	<sup>:</sup> 7,820 mg/l at 73 °F (23 °C)	
Partition coefficient: n- octanol/water	log Pow: 1.64 at 71.1 °F (21.7 °C)	
Relative vapor density	No Data Available.	
Evaporation rate	2.8 (butyl acetate = 1)	
Explosive properties	: Not explosive	
VOC Content	: 0	
Remarks - Other information	Additional properties may be listed in Sections 2 and 5.	
CTION 10. STABILITY AND RI	ΞΑCΤΙVΙΤΥ	
Reactivity	Will not occur.	
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Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Heat, sparks, open flame, other ignition sources, and oxidizing conditions.
Materials to avoid	<ul> <li>Some plastics. Acids. Alkalies. Nitrates. Strong oxidizing agents.</li> </ul>
Hazardous decomposition products	: Under hot, acidic conditions, the decomposition products are isobutylene and acetic acid.
Thermal decomposition	Carbon oxides (CO, CO2), Water.
Hazardous reactions	Not expected to occur.

### SECTION 11. TOXICOLOGICAL INFORMATION

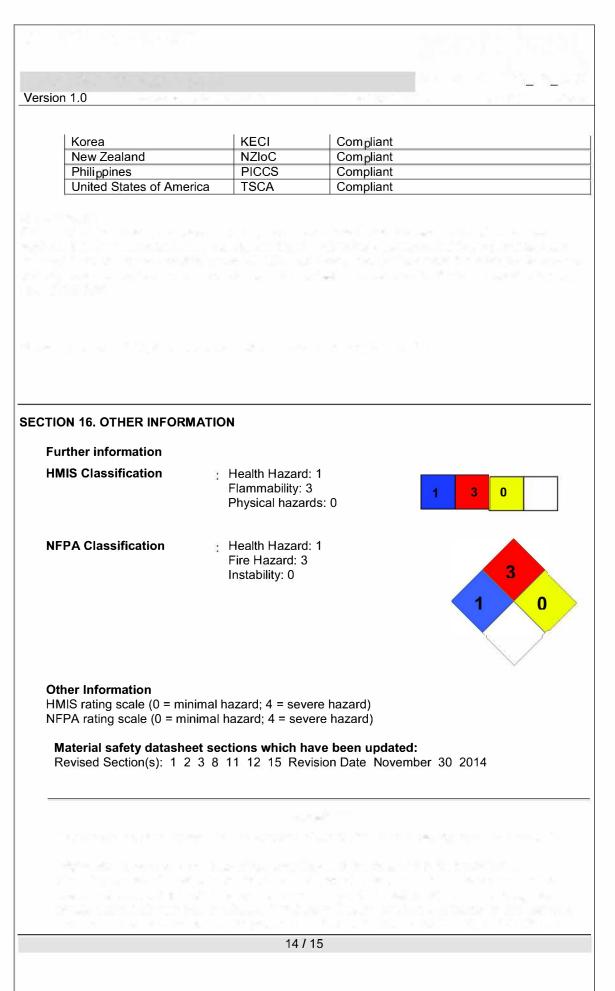
Product Summary	The below given information is based on the assessment of the product including impurities.	
Acute toxicity		
Acute oral toxicity	Based on acute toxicity values, not classified.	
	High doses may cause CNS depression (fatigue, dizziness and possibly loss of concentration, with collapse, coma and death in cases of severe over-exposure).	
	LD50 Oral: 4,500 mg/kg	
Acute inhalation toxicity	Classified Harmful if inhaled.	
	High vapor concentrations may cause CNS stimulation (increased activity, shaking, tremors) and/or depression (fatigue, dizziness, and possibly loss of concentration, with collapse, coma and death in cases of severe over-exposure	
	Exposure time: 4 HOURS Method: Calculation method	
Acute dermal toxicity	Based on acute toxicity values, not classified.	
	LD50 Dermal: > 2,000 mg/kg	
Skin corrosion/irritation	Based on skin irritation values, not classified.	
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	May cause slight transient skin irritation.
	Repeated exposure may cause skin dryness or cracking.
Serious eye damage/eye	Based on eye irritation values, not classified.
irritation	: Moderate eye irritation
Respiratory or skin sensitization	Respiratory sensitization Not classified No study available.
	Skin sensitization Not classified No adverse effect observed.
Chronic toxicity	
Carcinogenicity	<ul> <li>Not classified Contains a substance that has a positive carcinogenicity study.</li> <li>The weight of evidence for the carcinogenicity of this substance does not meet the criteria for classification.</li> </ul>
Germ cell mutagenicity	Not classified No adverse effect observed.
Reproductive toxicity	
Effects on fertility / Effects on or via lactation	<ul> <li>Not classified</li> <li>No adverse effect observed.</li> </ul>
Effects on Development	<ul> <li>Not classified</li> <li>No adverse effect observed.</li> </ul>
Target Organ Systemic Toxicant - Single exposure	Classified, May cause respiratory irritation., May cause drowsiness or dizziness.
	Target Organs: Central nervous system, Respiratory system
Target Organ Systemic Toxicant - Repeated exposure	Based on repeated exposure toxicity values, not classified.
Aspiration hazard	Based on physico-chemical values or lack of human evidence not classified.
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Ecotoxicology Assessment	
Acute aquatic toxicity	Classified
Acute aquatic toxicity	Harmful to aquatic life.
Chronic aquatic toxicity	: Not classified, based on readily biodegradability and low acute toxicity.
Toxicity to fish	: Acute toxicity to fish is very low.
Toxicity to daphnia and other aquatic invertebrates	: Acute toxicity to freshwater and marine invertebrates is very low.
Toxicity to algae	: Can inhibit growth of aquatic algae
	EC50: 16 mg/l
	Exposure time: 72 HOURS Species: Pseudokirchneriella subcapitata (green algae)
	Growth inhibition EC50: 64 mg/l
	Exposure time: 96 HOURS
	: NOEC: 2.3 mg/l
Toxicity to bacteria	High concentrations may be harmful to sewage treatment plant microbes
	: 1.5 mg/l
	Species: Activated sludge Respiration inhibition
Toxicity to fish (Chronic	no data available
toxicity)	
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	no data available
sistence and degradability	
Biodegradability	50 %
	Inherently biodegradable. (After 28 days in a ready biodegradability test)
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Version 1.0	
Bioaccumulative potential	
Bioaccumulation	: Bioconcentration factor (BCF): 5.61 This material is not expected to bioaccumulate.
lobility in soil	
Distribution among environmental compartments	: Stability in water Hydrolyzes in water, under environmental conditions Hydrolytic half-life 334 days (8010h) at 25C and pH7
	: Stability in soil no data available Low absorption to soil particulates predicted
Additional advice Environmental fate and pathways	: No additional information available.
Results of PBT and vPvB asses	ssment
Not applicable.	
Other adverse effects	
Additional ecological information	: No additional information available.
ECTION 13. DISPOSAL CONS	IDERATIONS
Further information	: Contaminated product, soil, water, container residues and spi cleanup materials may be hazardous wastes. Comply with applicable federal, state, and local regulations.
ECTION 14. TRANSPORT INF	ORMATION
DOT	
UN number	: 1263
Description of the goods	: PAINT
Class Packing group	: 3 : II
Labels	: 3
ECTION 15. REGULATORY IN	FORMATION
by the U.S. Environmental Prote	ded from the Federal definition of a VOC (40 C.F.R. § 51.100(s)(5 ction Agency on November 29, 2004 (69 FR 69304). State and loca d components of this product are listed under the TSCA 12(b) Expo d below.

			24 L	
Version 1.0	0			1007 - 204
SARA 302	/304			
	Component		TPQ	RQ
	Tert-Butyl acetate			5000 lbs
SARA 311	/312			
Fire Hazar Immediate	d. (Acute) Health Hazard.			
SARA 313	6			
	ct contains the following c 3 and 40 CFR 372:	hemicals subjec	t to the reporting require	ements of SARA Title III
Componen			Reporting T	hreshold
Tert-Butyl	_		<u>1.09</u>	
-				
State Repo	orting			
yondellBa	roductive, or development sell has not tested for the	presence of liste	d chemical substances	
This produ Right to Kr	ct contains the following c	hemicals regulat	ed by New Jersey's W	orker and Community
540-88-5	Tert-Butyl acetate			
75-65-0	Tert-Butyl alcohol			
This produ	int contains the following o	homicala regulat	ad by Managabugatta' [	Pight to Know Low
540-88-5	ct contains the following c Tert-Butyl acetate	nemicais regulai	eu by Massachusetts r	RIGHT TO KHOW Law.
75-65-0	Tert-Butyl alcohol			
107-39-1	2,4,4-Trimethyl-1-pent	ene		
	2,1,1 111100191 1 point			
This produ	ct contains the following c	hemicals regulat	ed by Pennsylvania's R	Right to Know Act:
540-88-5	Tert-Butyl acetate			
75-65-0	Tert-Butyl alcohol			
107-39-1	2,4,4-Trimethyl-1-pent	ene		
Other inter	rnational regulations			
Slobal Inv	entory Status			
	ients of this product are co	mpliant with the	following chemical inve	entory requirements or
xemptions	s. Iditional Explanatory Statu	is Statements fo	llow the table as neces	sarv
AU				
	ountry/Region	Inventory	Status Description	1
	ustralia	AICS	Compliant	
A	anada	DSL IECSC	Compliant Compliant	
Au Ca	hina			
Au Ca Cl	hina urope	REACH	See REACH Comp	liance Statement
Au Ci Ci Eu		REACH ENCS	Compliant	liance Statement



Disclaimer

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AFETY DATA SHEET	
remARC <sup>™</sup> SHIELD	2C COMPONENT B
Version 1.0 02/08/2023	
ECTION 1. PRODUCT AND C	OMPANY IDENTIFICATION
Product name CAS Number:	PremARC <sup>™</sup> SHIELD 2C CATALYST
CAS Number: Chemical characterization	COMPONENT B
Chemical Name	All and the second s
Synonyms	<ul> <li>A set of the second seco</li></ul>
Identified uses	1 N 23
Prohibited uses	
	Solvent
	Fuel blending; Fuel additive
Company	<ul> <li>Second C. Kawana and C. Altana.</li> </ul>
	American Recycling Center, Inc.
	655 Wabassee Dr Owosso, MI
Telephone	: Customer Service
	Product Safety 989-725-5100
Emergency telephone	: 800-424-9300 CHEMTREC 24 HDUR EMERGENCY
ECTION 2. HAZARDS IDENTI	FICATION
GHS Classification	
Flammable liquids	Category 2
Acute toxicity; Inhalation	Category 2 Category 4
Specific target organ syst	emic toxicity - single exposure Category 3
Acute aquatic toxicity	Category 3
GHS Classification Scale (1:	= severe hazard; 4= slight hazard)
Label elements	
Hazard symbols	
•	
Ciana al Marad	: Danger
Signal Word	
Signal Word Hazard Statements	: H225 Highly flammable liquid and vapor.
	H332 Harmful if inhaled.
	<ul><li>H332 Harmful if inhaled.</li><li>H335 May cause respiratory irritation.</li></ul>

Precautionary Statements	- No smoking. P233 Keep containe P243 Take precautic P261 Avoid breathin	m heat/sparks/open fla r tightly closed. onary measures against g dust/ fume/ gas/ mist, re gloves/ protective clo	t static dischar / vapors/ spray
	protection/ face protection. <b>Response</b> P370 + P378 In case of fire: Use dry sand, dry chemical of alcohol-resistant foam to extinguish. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/ physician if you feel unwell.		
	<b>Storage</b> P403 + P235 Store in a well-ventilated place. Keep cool.		
<b>Other hazards</b> Hazards Not Otherwise Cl Repeated exposure may c	P405 Store locked u	p.	e. Keep cool.
Hazards Not Otherwise Cl Repeated exposure may c omposition/information on i stances	P405 Store locked u assified (HNOC) ause skin dryness or crack ngredients	p.	e. Keep cool.
Hazards Not Otherwise Cl Repeated exposure may c omposition/information on i stances Chemical nature	P405 Store locked u assified (HNOC) ause skin dryness or crack	p.	e. Keep cool.
Hazards Not Otherwise Cl Repeated exposure may c omposition/information on i stances	P405 Store locked u assified (HNOC) ause skin dryness or crack ngredients : Substance CAS-No.	p.	e. Keep cool.
Hazards Not Otherwise Cl Repeated exposure may c omposition/information on i stances Chemical nature Ingredients	P405 Store locked u assified (HNOC) ause skin dryness or crack ngredients : Substance	p.	
Hazards Not Otherwise Cl Repeated exposure may c omposition/information on i stances Chemical nature Ingredients Chemical Name	P405 Store locked u assified (HNOC) ause skin dryness or crack ngredients : Substance CAS-No. EC-No.	p.	
Hazards Not Otherwise Cl Repeated exposure may c omposition/information on i stances Chemical nature Ingredients Chemical Name Tert-Butyl acetate	P405 Store locked u assified (HNOC) ause skin dryness or crack ngredients : Substance CAS-No. EC-No. 540-88-5	p. ting. <u>Weight %</u> 10-30 %	
Hazards Not Otherwise Cl Repeated exposure may c omposition/information on i stances Chemical nature Ingredients Chemical Name Tert-Butyl acetate Tert-Butyl alcohol	P405 Store locked u assified (HNOC) ause skin dryness or crack ngredients : Substance CAS-No. EC-No. 540-88-5 75-65-0 75-65-0	p. ting. <u>Weight %</u> 10-30 % <0.5 %	

First aid procedures	
General advice	<ul> <li>Take proper precautions to ensure your own health and safe before attempting rescue and providing first aid.</li> <li>Consult a physician/doctor if necessary.</li> <li>Show this material safety data sheet to the doctor in attendance.</li> </ul>
If inhaled	If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Call a physician.
In case of skin contact	<ul> <li>Remove contaminated clothing as needed.</li> <li>Wash skin thoroughly with mild soap and water.</li> <li>Flush with lukewarm water for 15 minutes.</li> <li>If sticky, use waterless cleaner first.</li> <li>Seek medical attention if ill effect or irritation develops.</li> </ul>
In case of eye contact	Thoroughly flush the eyes with large amounts of clean low- pressure water for at least 15 minutes, occasionally lifting th upper and lower eyelids. If irritation persists, seek medical attention.
If swallowed	<ul> <li>If large quantity swallowed, give lukewarm water (pint/ 1/2 litre) if victim completely conscious/alert.</li> <li>Do not induce vomiting. Risk of damage to lungs exceeds poisoning risk.</li> <li>Obtain emergency medical attention.</li> </ul>
Notes to physician	
Symptoms	<ul> <li>If inhalation occurs signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath and/or fever.</li> <li>High doses may cause CNS depression (fatigue, dizziness and possibly loss of concentration, with collapse, coma and death in cases of severe over-exposure).</li> <li>The onset of respiratory symptoms may be delayed for several hours after exposure.</li> </ul>
Hazards	: Can cause pulmonary edema if aspirated into lungs. Harmful: may cause lung damage if swallowed.
Treatment	<ul> <li>Treat symptomatically.</li> <li>Treatment of overexposure should be directed at the control symptoms and the clinical condition of the patient.</li> <li>In case of ingestion, the stomach should be emptied by gas lavage under qualified medical supervision.</li> </ul>

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TION 5. FIRE-FIGHTING ME	ASURES
Flammable properties	
Flash point	: 39 °F (4 °C) at 1013.0 hPa (759.8 mm Hg)
Autoignition temperature	: 1092 °F (589 °C) at 1,013 hPa (760 mm Hg)
Lower explosion limit	: ~1.26 vol%
Upper explosion limit	: ~6.88 vol%
Flammability (solid, gas)	: Not applicable
Fire fighting	
Suitable extinguishing media	SMALL FIRE: Use dry chemicals, CO2, water spray or alcohol-resistant foam. LARGE FIRE: Use water spray, wa fog or alcohol-resistant foam.
Unsuitable extinguishing media	: Do not use solid water stream - may spread fire.
Further information	<ul> <li>Collect contaminated fire extinguishing water separately. The must not be discharged into drains.</li> <li>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.</li> <li>For safety reasons in case of fire, cans should be stored separately in closed containments.</li> <li>Use a water spray to cool fully closed containers.</li> </ul>
Protective equipment and p	precautions for firefighters
Specific hazards during fire fighting	<ul> <li>Releases flammable vapors below normal ambient temperatures.</li> <li>When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined.</li> <li>Flammable vapors may be heavier than air and travel long distances along the ground before igniting and flashing bac to vapor source.</li> <li>Move containers from fire area if it can be done without risk Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.</li> <li>Cool containers with flooding quantities of water until well a fire is out.</li> <li>Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.</li> <li>Always stay away from tanks engulfed in fire.</li> <li>For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.</li> </ul>
Special protective equipment	: Wear positive pressure self-contained breathing apparatus 4 / 15

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for fire-fighters	(SCBA). Structural firefighter's protective clothing will only provide limited protection.
CTION 6. ACCIDENTAL RELE	ASE MEASURES
Personal precautions	Use personal protective equipment. Ensure adequate ventilation.
Environmental precautions	<ul> <li>Prevent product from entering drains.</li> <li>Prevent further leakage or spillage if safe to do so.</li> <li>If the product contaminates rivers and lakes or drains inform respective authorities.</li> </ul>
Methods for containment / Methods for cleaning up	<ul> <li>Extremely flammable.</li> <li>Eliminate all sources of ignition.</li> <li>All equipment used when handling this product must be grounded.</li> <li>Do not touch or walk through spilled material.</li> <li>Stop leak if you can do it without risk.</li> <li>Prevent entry into waterways, sewers, basements or confine areas.</li> <li>A vapor suppressing foam may be used to reduce vapors.</li> <li>Absorb or cover with dry earth, sand or other non-combustit material and transfer to containers.</li> <li>Use clean non-sparking tools to collect absorbed material.</li> <li>Dike large spills and place materials in salvage containers.</li> <li>Water spray may reduce vapor; but may not prevent ignition closed spaces.</li> </ul>
Additional advice	See section 8 for additional PPE information.
CTION 7. HANDLING AND ST	ORAGE
Handling	
Advice on safe handling	<ul> <li>Use only non-sparking tools. Extinguish all ignition sources. Carefully vent any internal pressure before removing closure Containers must be properly grounded before beginning transfer. Handle empty containers with care; vapor/residue may be flammable. All equipment must conform to applicable electrical code. This material may attack some forms of plastics, rubbers, ar coatings. Isolate, vent, drain, wash and purge systems or equipment before maintenance or repair. Check atmosphere for explosiveness and oxygen deficiencie Wear recommended personal protective equipment. Observe precautions pertaining to confined space entry. Do not breathe vapors or spray mist.</li> </ul>

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Advice on protection against fire and explosion	<ul> <li>Keep away from heat/sparks/open flames/hot surfaces N smoking.</li> <li>Take precautionary measures against static discharge.</li> </ul>
Storage	
Requirements for storage areas and containers	<ul> <li>Store closed drums with bung in up position.</li> <li>Store only in tightly closed, properly vented containers awa from heat, sparks, open flame and strong oxidizing agents.</li> <li>Containers must be properly grounded before beginning transfer.</li> <li>This material may attack some forms of plastics, rubbers, a coatings.</li> <li>Consult supplier(s) of these materials for specific recommendations.</li> <li>Steel drums are recomended for packaging.</li> </ul>

# 8. Exposure controls/personal protection

### **Control parameters**

# Ingredients with workplace control parameters

# **Occupational Exposure Limits**

Ingredients	CAS-No.	Туре	Limit Value	Basis Revision Date	Additional Information
Tert-Butyl acetate	540-88-5	TWA	200 ppm	US (ACGIH) 2012	
Tert-Butyl acetate	540-88-5	IDLH	1,500 ppm	NIOSH September 2007	
	Remarks: 10%	% LEL			
Tert-Butyl acetate	540-88-5	TWA	200 ppm 950 mg/m3	US (OSHA) June 23, 2006	
Tert-Butyl alcohol	75-65-0	TWA	100 ppm	US (ACGIH) 2012	
Tert-Butyl alcohol	75-65-0	IDLH	1,600 ppm	NIOSH September 2007	
Tert-Butyl alcohol	75-65-0	TWA	100 ppm 300 mg/m3	US (OSHA) June 23, 2006	
HOMOPOLYMER OF HDI	28182-81-2	N/E	N/E	N/E	

Consult local authorities for acceptable exposure limits.

### Exposure controls

### **Engineering measures**

Both local exhaust and good general room ventilation must be provided not only to control exposure but also to prevent formation of flammable mixtures.

#### Personal protective equipment

Respiratory protection	When workers are facing o limit they must use approp	concentrations above the exposure riate certified respirators.
Hand protection	Wear chemical resistant gl Butyl rubber.	oves such as:
Eye and face protection	Use splash goggles when spraying liquid is possible.	eye contact due to splashing or
Skin and body protection	boots, head and face prote	ns of use, protective gloves, apron, action should be worn. eaned thoroughly after each use.
Hygiene measures	be based on an evaluation of the protective equipmen performed, conditions pres hazards and/or potential h during use. Emergency eye wash four available in the immediate Use good personal hygien	ersonal protective equipment should of the performance characteristics at relative to the task(s) to be sent, duration of use, and the azards that may be encountered ttains and safety showers should be vicinity of any potential exposure. e practices. , drinking, smoking, or using toilet

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical state	: liquid
Color	Clear, colorless
Odor	Camphor-like odor.
Odor Threshold	: 71 ppb
Safety data	
Flash point	39 °F (4 °C) at 1013.0 hPa (759.8 mm Hg)
Lower explosion limit	: ~1.26 vol%
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Reactivity	ţ	Will not occur.
TION 10. STABILITY AND RE	EAC	ΤΙVΙΤΥ
Remarks - Other information	į	Additional properties may be listed in Sections 2 and 5.
VOC Content	:	0
Explosive properties	ŝ	Not explosive
Evaporation rate	\$	2.8 (butyl acetate = 1)
Relative vapor density	÷	No Data Available.
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Partition coefficient: n- octanol/water	;	log Pow: 1.64 at  71.1 °F (21.7 °C)
Water solubility	î	7,820 mg/l at 73 °F (23 °C)
Density	1	1.09 g/cm3 at 77 °F (25 °C)
Vapor pressure	÷	55.995 hPa (42.000 mm Hg) at 68 °F (20 °C)
Boiling point/boiling range	ž	208.0 °F (97.8 °C) at 1,013 hPa (760 mm Hg)
pH Melting point/freezing point		6 - 7 -72.67 °F (-58.15 °C) at 1,013 hPa (760 mm Hg)
Decomposition temperature	:	not determined
Molecular weight	:	116.16 g/mol
Autoignition temperature	1	1092 °F (589 °C) at 1,013 hPa (760 mm Hg)
Oxidizing properties	2000	Not considered an oxidizing agent.
Flammability (solid, gas)		Not applicable
Upper explosion limit		

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Heat, sparks, open flame, other ignition sources, and oxidizing conditions.
Materials to avoid	Some plastics. Acids. Alkalies. Nitrates. Strong oxidizing agents.
Hazardous decomposition products	Under hot, acidic conditions, the decomposition products are isobutylene and acetic acid.
Thermal decomposition	Carbon oxides (CO, CO2), Water.
Hazardous reactions	Not expected to occur.

### SECTION 11. TOXICOLOGICAL INFORMATION

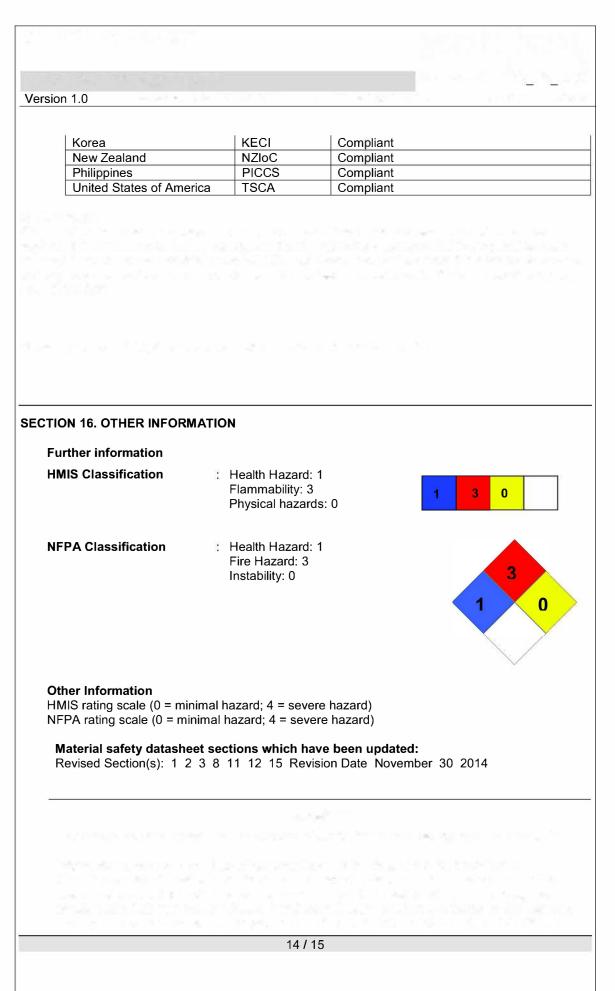
Product Summary	The below given information is based on the assessment of the product including impurities.
Acute toxicity	
Acute oral toxicity	Based on acute toxicity values, not classified.
	High doses may cause CNS depression (fatigue, dizziness and possibly loss of concentration, with collapse, coma and death in cases of severe over-exposure).
	LD50 Oral: 4,500 mg/kg
Acute inhalation toxicity	Classified Harmful if inhaled.
	High vapor concentrations may cause CNS stimulation (increased activity, shaking, tremors) and/or depression (fatigue, dizziness, and possibly loss of concentration, with collapse, coma and death in cases of severe over-exposure
	Exposure time: 4 HOURS Method: Calculation method
Acute dermal toxicity	Based on acute toxicity values, not classified.
	LD50 Dermal: > 2,000 mg/kg
Skin corrosion/irritation	Based on skin irritation values, not classified.
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	May cause slight transient skin irritation.
	Repeated exposure may cause skin dryness or cracking.
Serious eye damage/eye	Based on eye irritation values, not classified.
irritation	Moderate eye irritation
Respiratory or skin sensitization	Respiratory sensitization Not classified No study available.
	Skin sensitization Not classified No adverse effect observed.
Chronic toxicity	
Carcinogenicity	<ul> <li>Not classified Contains a substance that has a positive carcinogenicity study.</li> <li>The weight of evidence for the carcinogenicity of this substance does not meet the criteria for classification.</li> </ul>
Germ cell mutagenicity	<ul> <li>Not classified</li> <li>No adverse effect observed.</li> </ul>
Reproductive toxicity	
Effects on fertility / Effects on or via lactation	<ul> <li>Not classified</li> <li>No adverse effect observed.</li> </ul>
Effects on Development	<ul> <li>Not classified</li> <li>No adverse effect observed.</li> </ul>
Target Organ Systemic Toxicant - Single exposure	Classified, May cause respiratory irritation., May cause drowsiness or dizziness.
	Target Organs: Central nervous system, Respiratory system
Target Organ Systemic Toxicant - Repeated exposure	Based on repeated exposure toxicity values, not classified.
Aspiration hazard	Based on physico-chemical values or lack of human evidence not classified.
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ECOLOGICAL INFORMATION	
Ecotoxicology Assessment	
Acute aquatic toxicity	Classified Harmful to aquatic life.
Chronic aquatic toxicity	Not classified, based on readily biodegradability and low act toxicity.
Toxicity to fish	: Acute toxicity to fish is very low.
Toxicity to daphnia and other aquatic invertebrates	Acute toxicity to freshwater and marine invertebrates is very low.
Toxicity to algae	Can inhibit growth of aquatic algae
	<ul> <li>EC50: 16 mg/l</li> <li>Exposure time: 72 HOURS</li> <li>Species: Pseudokirchneriella subcapitata (green algae)</li> <li>Growth inhibition</li> <li>EC50: 64 mg/l</li> <li>Exposure time: 96 HOURS</li> </ul>
	NOEC: 2.3 mg/l
Toxicity to bacteria	High concentrations may be harmful to sewage treatment plant microbes
	<ul> <li>1.5 mg/l Species: Activated sludge Respiration inhibition</li> </ul>
Toxicity to fish (Chronic toxicity)	i no data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	i no data available
sistence and degradability	
Biodegradability	<ul> <li>50 %</li> <li>Inherently biodegradable.</li> <li>(After 28 days in a ready biodegradability test)</li> <li>11 / 15</li> </ul>

Version 1.0 **Bioaccumulative potential Bioaccumulation** Bioconcentration factor (BCF): 5.61 8 This material is not expected to bioaccumulate. Mobility in soil Distribution among : Stability in water environmental Hydrolyzes in water, under environmental conditions compartments Hydrolytic half-life 334 days (8010h) at 25C and pH7 Stability in soil no data available Low absorption to soil particulates predicted Additional advice No additional information available. Environmental fate and pathways Results of PBT and vPvB assessment Not applicable. Other adverse effects Additional ecological No additional information available. information **SECTION 13. DISPOSAL CONSIDERATIONS** Further information Contaminated product, soil, water, container residues and spill cleanup materials may be hazardous wastes. Comply with applicable federal, state, and local regulations. **SECTION 14. TRANSPORT INFORMATION** DOT UN number 1263 Description of the goods PAINT 3 Class Packing group Labels 3 č SECTION 15. REGULATORY INFORMATION Tertiary butyl acetate was excluded from the Federal definition of a VOC (40 C.F.R. § 51.100(s)(5)) by the U.S. Environmental Protection Agency on November 29, 2004 (69 FR 69304). State and local definitions may vary. If identified components of this product are listed under the TSCA 12(b) Export Notification rule, they will be listed below. 12/15

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SARA 302/	304			
	Component		TPQ	RQ
1.0	Tert-Butyl acetate			5000 lbs
	,			
SARA 311/	312			
Fire Hazard				
mmediate (	Acute) Health Hazard.			
SARA 313				
	t contains the following c and 40 CFR 372:	hemicals subjec	t to the reporting require	ments of SARA Title III
Component			Reporting TI	nreshold
Tert-Butyl a			1.0%	
,				
State Repo	rting			
	I is not known to contain oductive, or development			
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