

1. Product and Company Ider	ntification						
PRODUCT NUMBER:	2929	COMPAN	Y PHONE:		1-800-241	-8180	
PRODUCT NAME:	FUEL PLUS X-100	EMERGE	MERGENCY TELEPHONE:		1-800-241-8180		
PRODUCT DESCRIPTION:	Gasoline and Diesel Fuel Condi Concentrate			1-800-535-5053			
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004						
2. Hazards Identification							
Aspiration hazard: Category 1 HAZARD STATEMENTS: Flammable liquid and May be fatal if swallo Causes skin irritation Causes serious eye of May cause damage t PRECAUTIONARY STATEME Prevention: Keep away from hea Keep container tightl Ground/bond contain Use explosion-proof Use only non-sparkin Take precautionary n Do not breathe dust// Wash skin thoroughl Do not breath dust// Wash skin thoroughl Do not breat, drink, or s Wear protective glow Response: IF SWALLOWED: In IF ON SKIN (or hair): IF IN EYES: Rinse of call a POISON CENT IF EXPOSED OR YC Get medical advice/a Do NOT induce vomi If skin irritation occur Take off contaminate IN CASE OF FIRE:	ry 1 single exposure: Category 2 repeated exposure: Category 2 d vapour. wed and enters airways. damage. to organs. to organs through prolonged or reper NTS: t, hot surfaces, sparks, open flames y closed. ter and receiving equipment. electrical ventilating/lighting/equipment g tools. neasures against static discharge. fume/gas/mist/vapours/spray. y after handling. smoke when using this product. es/eye protection/face protection. neediately call a POISON CENTEF : Remove/take off immediately all c autiously with water for several min TER or doctor/physician. DU FEEL UNWELL: Call a POISON ttention if you feel unwell.	, and other ignition sou ent. or doctor/physician. ontaminated clothing. utes. Remove contact	Rinse skin with v lenses, if preser ysician.	vater/shower.	Continue rinsing	. Immediately	
	container in accordance with local re						
3. Composition / Information	on Ingredients		CAS		noontwotion 0/	Woight	
CHEMICAL NAME Distillates (petroleum), hydrotre	ated light paphthesis		CAS 64742-53-6	Co	oncentration % by >= 70 - < 90	-	
butan-2-ol			78-92-2		>= 70 - < 90		
Cresol		1319-77-3		>= 1 - < 5			
Ovelehevenene			100.04.1				

Cyclohexanone

108-94-1

>= 1 - < 5

4. First Aid Measures											
EMERGENCY OVER											
WARNING: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may											
appear several hours later. Do not leave the victim unattended.											
	EYES: Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye.										
Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.											
SKIN: If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.											
INHALATION:	INHALATION: Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.										
Consult a pr INGESTION:	nysician after signi	ficant exposure. I	f unconscious, place	in recovery position and seek medic	al advice.						
Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an											
	unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.										
5. Fire-Fighting Meas											
SUITABLE FIRE EXT		۵ ۱ ۵۰									
			emical, or carbon dio	xide.							
UNSUITABLE FIRE E			,								
High volume											
HAZARDOUS COMB		n monoxide. Smo	ko								
	IRE-FIGHTING M		ine.								
Use extingu	ishing measures th	nat are appropriate		ces and the surrounding environment							
				ains. Fire residues and contaminated							
		I local regulations closed containers		s, in case of fire cans should be stored	separately in closed	i containments.					
			fighting if necessary								
6. Accidental Release	Maggurag										
PERSONAL PRECAU											
		ment. Ensure ade	equate ventilation. R	efer to protective measures listed in s	Sections 7 and 8.						
ENVIRONMENTAL PI											
Prevent proc	duct from entering	drains. Prevent f	urther leakage or spi	llage if safe to do so. If the product c	ontaminates rivers ar	nd lakes or drains					
				non-combustible absorbent material,							
disposal.	and place in conta	amer for disposal a	according to local/nat	tional regulations (see Section 13). K	eep in suitable, close	ed containers for					
7. Handling and Stora	-										
SAFE HANDLING PR		a not broatha van	auro/duct Avoid ovr	acura abtain anacial instructions ba	fore use Avoid cont	act with akin and					
				osure - obtain special instructions be rinking should be prohibited in the ap							
				only under exhaust ventilation hood.							
	netal tray. Dispos	e of rinse water in	accordance with loc	al and national regulations.							
SAFE STORAGE:	Keen container t	ightly closed in a	dry and well-ventilate	ed place. Observe label precautions.	Electrical installation	e/working					
		e technological sat		ed place. Observe label precautions.		IS/WORKING					
MATERIALS TO AVO		g g									
Oxidizing ag	ents. Do not free	ze.									
8. Exposure Controls	/ Personal Prote	ection									
Components	CAS #		orm of exposure)	Control Parameters/Permissible	Concentration	Basis					
butan-2-ol	78-92-2		WA	100 ppm		ACGIH					
		Т	WA	100 ppm		NIOSH REL					
			0T	305 mg/m ³							
			ST	150 ppm		NIOSH REL					
		т	WA	455 mg/m ³ 150 ppm		OSHA Z-1					
		I		450 mg/m ³		CONTE 1					
		Т	WA	100 ppm		OSHA P0					
Crocol	1010 77 0	-	74/4	305 mg/m ³							
Cresol	1319-77-3	I	WA	5 ppm 22 mg/m³		OSHA Z-1					
Cyclohexanone	108-94-1	т	WA	22 mg/m² 20 ppm							
-			TEL	50 ppm		ACGIH					
			WA	25 ppm		ACGIH ACGIH					
		_	WA	100 mg/m ³							
		TWA 50 ppm OSHA Z-1									
	200 mg/m ³										
		т	WA	100 mg/m³ 50 ppm 200 mg/m³		ACGIH NIOSH REL OSHA Z-1					
		т		100 mg/m³ 50 ppm		ACGIH NIOSH REL					
BIOLOGICAL OCCUF	PATIONAL EXPO	SURE LIMITS	WA WA	100 mg/m³ 50 ppm 200 mg/m³ 25 ppm		ACGIH NIOSH REL OSHA Z-1					
		SURE LIMITS Control	WA WA Biological	100 mg/m³ 50 ppm 200 mg/m³ 25 ppm 100 mg/m³	Permissible	ACGIH NIOSH REL OSHA Z-1 OSHA P0					
BIOLOGICAL OCCUP Components CYCLOHEXANONE	PATIONAL EXPO CAS # 108-94-1	SURE LIMITS	WA WA	100 mg/m³ 50 ppm 200 mg/m³ 25 ppm	Permissible Concentration 80 mg/l	ACGIH NIOSH REL OSHA Z-1					

Urine

End of shift (As soon as possible after exposure ceases)

ACGIH BEI

8 mg/l

PERSONAL PROTECTIVE EQUIPMENT:



EYE PROTECTION: Eyewash bottle with pure water. Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems.

SKIN PROTECTION: Skin should be washed after contact. For prolonged or repeated contact use protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

RESPIRATORY PROTECTION: No personal respiratory protective equipment normally required. In case of insufficient ventilation, wear suitable respiratory equipment.

HYGIENE MEASURES: When using, do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

9. Physical & Chemical Properties			
APPEARANCE:	Liquid.	FLASH POINT:	23.3°C; Method: TCC
Color:	Clear, red.	EVAPORATION RATE:	2
ODOR:	Characteristic.	Explosive Limit – lower (%):	No data available.
ODOR THRESHOLD:	No data available.	Explosive Limit – upper (%):	No data available.
pH:	No data available.	VAPOR PRESSURE:	200 hPa
MELTING/FREEZING POINT:	No data available.	RELATIVE VAPOR DENSITY:	No data available.
BOILING POINT:	120°C	DENSITY:	0.89 g/cm ³
PARTITION COEFFICIENT (n-	No data available.	SOLUBILITY (water):	Negligible.
octanol/water):			
VISCOSITY, KINEMATIC:	No data available.	AUTO-IGNITION TEMP:	Not determined.
SOLUBILITY (other solvents):	Not determined.	THERMAL DECOMPOSITION:	No data available.

10. Stability & Reactivity Information

REACTIVITY:

Stable. No decomposition if stored and applied as directed.

CHEMICAL STABILITY:

Stable under normal conditions. No decomposition if stored and applied as directed.

POSSIBILITY OF HAZARDOUS REACTIONS:

No hazards to be specifically mentioned. No decomposition if stored and applied as directed. Vapours may form explosive mixture with air. **INCOMPATIBLE MATERIALS:**

Strong oxidizing agents.

CONDITIONS TO AVOID:

Heat, flames, and sparks. **DECOMPOSITION PRODUCTS:**

Carbon monoxide, carbon dioxide, and unburned hydrocarbons (smoke).

11. Toxicological Information

11. Toxicological information	
ACUTE TOXICITY:	
Product:	
Acute oral toxicity estimate:	2,869 mg/kg.
·····	Method: Calculation method/
Acute inhalation toxicity estimate:	> 40 mg/l.
	Exposure time: 4 h.
	Test atmosphere: vapour.
	Method: Calculation method.
Acute dermal toxicity estimate:	> 5,000 mg/kg.
	Method: Calculation method.
Components:	
butan-2-ol:	
Acute oral toxicity:	LD50 Oral rat: 2,193 mg/kg
Acute dermal toxicity:	LD50 Dermal rat: > 2,000 mg/kg
SKIN CORROSION/IRRITATION:	
Extremely corrosive and destructive to	tissue.
SERIOUS EYE DAMAGE/EYE IRRITATION:	
May cause irreversible eye damage.	
RESPIRATORY OR SKIN SENSITIZATION:	
No data available.	
GERM CELL MUTAGENICITY:	
No data available.	
CARCINOGENICITY:	
	presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human
carcinogen by IARC.	
	t presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by
ACGIH.	
OSHA: No component of this product	presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by

OSHA.	r potential earning on by
NTP: No component of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen of NTP.	in potential carcinogen by
REPRODUCTIVE TOXICITY:	
No data available.	
Distillates (petroleum), hydrotreated light naphthenic: butan-2-ol:	
cresol:	
cyclohexanone:	
STOT - single exposure: No data available.	
STOT - repeated exposure:	
No data available.	
ASPIRATION TOXICITY:	
No data available. FURTHER INFORMATION:	
No data available. Symptoms of overexposure may be headache, dizziness, tiredness, nausea, and vomiting. Con	ncentrations substantially
above the TLV value may cause narcotic effects. Solvents may degrease the skin.	
12. Ecological Information	
ECOTOXICITY:	
No data available.	
PERSISTENCE AND DEGRADABILITY:	
No data available. BIOACCUMULATIVE POTENTIAL:	
Product:	
Partition coefficient: n-octanol/water: No data available.	
Component: butan-2-ol:	
Partition coefficient: n-octanol/water: log Pow: 0.146.	
cyclohexanone:	
Partition coefficient: n-octanol/water: log Pow: 0.81.	
MOBILITY IN SOIL: No data available.	
OTHER ADVERSE EFFECTS:	
No data available.	
Product:	
Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Cla Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the L	
40 CFR 82, Subpt. A, App.A + B).	.5. Glean All Act Section 002
ADDITIONAL ECOLOGICAL INFORMATION:	
No data available.	
13. Disposal Consideration	
WASTE FROM RESIDUES:	
Dispose of in accordance with local regulations. Do not dispose of waste into sewer. Do not contaminate ponds, v chemical or used container. Send to a licensed waste management company.	vaterways or ditches with
CONTAMINATED PACKAGING:	
Empty remaining contents. Dispose of as unused product. Do not reuse empty containers. Do not burn, or use a	cutting torch on, the empty
drum.	
14. Transportation Information	
INTERNATIONAL REGULATION:	
IATA-DGR:	
UN/ID No. 1993	
Proper shipping name: Flammable liquid, n.o.s. (Distillates (petroleum), hydrotreated light naphthenic). Class: 3	
Packing group: III	
Labels: 3	
Packing instruction (cargo aircraft): 366	
Packing instruction (cargo an crait). 505	
Packing instruction (passenger aircraft): 355	
Packing instruction (passenger aircraft): 355 IMDG-CODE:	
Packing instruction (passenger aircraft): 355 IMDG-CODE: UN Number: 1993 Proper shipping name: FLAMMABLE LIQUID, N.O.S. (distillates (petroleum), hydrtreated light naphthenic).	
Packing instruction (passenger aircraft): 355 IMDG-CODE: UN Number: 1993 Proper shipping name: FLAMMABLE LIQUID, N.O.S. (distillates (petroleum), hydrtreated light naphthenic). Class: 3	
Packing instruction (passenger aircraft): 355 IMDG-CODE: UN Number: 1993 Proper shipping name: FLAMMABLE LIQUID, N.O.S. (distillates (petroleum), hydrtreated light naphthenic). Class: 3 Packing group: III	
Packing instruction (passenger aircraft): 355 IMDG-CODE: UN Number: 1993 Proper shipping name: FLAMMABLE LIQUID, N.O.S. (distillates (petroleum), hydrtreated light naphthenic). Class: 3	
Packing instruction (passenger aircraft): 355 IMDG-CODE: UN Number: 1993 Proper shipping name: FLAMMABLE LIQUID, N.O.S. (distillates (petroleum), hydrtreated light naphthenic). Class: 3 Packing group: III Labels: 3 EmS code: F-E, S-E Marine pollutant: No.	
Packing instruction (passenger aircraft): 355 IMDG-CODE: UN Number: 1993 Proper shipping name: FLAMMABLE LIQUID, N.O.S. (distillates (petroleum), hydrtreated light naphthenic). Class: 3 Packing group: III Labels: 3 EmS code: F-E, S-E Marine pollutant: No. TRANSPORT IN BUL ACCORDING TO Annexx II of MARPOL 73/78 and the IBC Code:	
Packing instruction (passenger aircraft): 355 IMDG-CODE: UN Number: 1993 Proper shipping name: FLAMMABLE LIQUID, N.O.S. (distillates (petroleum), hydrtreated light naphthenic). Class: 3 Packing group: III Labels: 3 EmS code: F-E, S-E Marine pollutant: No. TRANSPORT IN BUL ACCORDING TO Annexx II of MARPOL 73/78 and the IBC Code: Not applicable for product as supplied.	
Packing instruction (passenger aircraft): 355 IMDG-CODE: UN Number: 1993 Proper shipping name: FLAMMABLE LIQUID, N.O.S. (distillates (petroleum), hydrtreated light naphthenic). Class: 3 Packing group: III Labels: 3 EmS code: F-E, S-E Marine pollutant: No. TRANSPORT IN BUL ACCORDING TO Annexx II of MARPOL 73/78 and the IBC Code:	
Packing instruction (passenger aircraft): 355 IMDG-CODE: UN Number: 1993 Proper shipping name: FLAMMABLE LIQUID, N.O.S. (distillates (petroleum), hydrtreated light naphthenic). Class: 3 Packing group: III Labels: 3 EmS code: F-E, S-E Marine pollutant: No. TRANSPORT IN BUL ACCORDING TO Annexx II of MARPOL 73/78 and the IBC Code: Not applicable for product as supplied. NATIONAL REGULATIONS: 49 CFR:	

Not applicable.

	CAS #	COMPONENT RQ (lbs):		-
COMPONENTS Cresol	1319-77-3	100	CALCULATED PRODUCT RQ (lbs) 4207	-
			4207	-
SARA 304 Extremely Hazardous			20	
SARA 311/312 Hazards:	ontain any compon	ents with a section 304 EHS R	IQ.	
Fire Hazard				
Acute Health Hazard				
SARA 302:				
	orial are subject to	the reporting requirements of	SABA Title III. Section 302	
SARA 313:		the reporting requirements of		
	ts are subject to re	porting levels established by S	ARA Title III Section 313	
butan-2-ol CALIFORNIA PROP 65:	78-92-2	19.532 %		
butan-2-ol CALIFORNIA PROP 65:	78-92-2	19.532 %		er reproductive harm.
butan-2-ol CALIFORNIA PROP 65: This product does not co	78-92-2 Intain any chemical	19.532 % s known to State of California	to cause cancer, birth defects, or any oth	er reproductive harm.
butan-2-ol CALIFORNIA PROP 65:	78-92-2 Intain any chemical	19.532 % s known to State of California	to cause cancer, birth defects, or any oth	er reproductive harm.
butan-2-ol CALIFORNIA PROP 65: This product does not co The components of this product	78-92-2 Intain any chemical	19.532 % s known to State of California e following inventories: On TSCA Invento	to cause cancer, birth defects, or any oth	er reproductive harm.
butan-2-ol CALIFORNIA PROP 65: This product does not co The components of this product TSCA	78-92-2 Intain any chemical	19.532 % s known to State of California e following inventories: On TSCA Invento All components o	to cause cancer, birth defects, or any oth	er reproductive harm.
butan-2-ol CALIFORNIA PROP 65: This product does not co The components of this product TSCA DSL	78-92-2 Intain any chemical	19.532 % s known to State of California e following inventories: On TSCA Invento All components o On the inventory,	to cause cancer, birth defects, or any oth bry f this product are on the Canadian DSL.	er reproductive harm.
butan-2-ol CALIFORNIA PROP 65: This product does not co The components of this product TSCA DSL AICS	78-92-2 Intain any chemical	19.532 % s known to State of California e following inventories: On TSCA Invento All components o On the inventory, On the inventory,	to cause cancer, birth defects, or any oth bry f this product are on the Canadian DSL. or in compliance with the inventory	er reproductive harm.

16. Other Information

N/A = Not Applicable; N/D = Not Determined

NFPA	Health Hazards: 3	Flammability: 3	Instability: 0	Physical & Chemical Properties:	
HMIS	Health Hazards: 3*	Flammability: 3	Physical hazards: 0	Personal protection:	

0 = not significant, 1 =Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic

DISCLAIMER:

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.