

SECTION 1: Product identifier

1.1. GHS Product identifier

Product form	Mixture
Product name	XPEL Pro Series Graphene

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

No additional information available

1.4. Details of manufacturer or importer

Supplier XPEL, Inc. 3251 I-35 San Antonio, TX, 78219 USA T +1 210-678-3700	Importer XPEL Australia 4/2 Holker St. Newington NSW 2127 Australia
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E-mail address of competent person responsible for the SDS: sds@gbk-ingelheim.de

1.5. Emergency phone number

Emergency number	1300 366 961
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SECTION 2: Hazard identification

2.1. Classification of the hazardous chemical

Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Flammable liquids, Category 3	H226
Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 1A	H314
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412

2.2. GHS Label elements, including precautionary statements

Hazard pictograms (GHS AU)



Signal word (GHS AU)

Danger

Contains

Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanam ($\geq 30 - < 50$ %); 3- (Polyoxyethylene)propylheptamethyltrisiloxane ($\geq 5 - < 10$ %); 3- aminopropyltriethoxysilane ($\geq 3 - < 5$ %)

Hazard statements (GHS AU)

H226 - Flammable liquid and vapour
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS AU)

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 - Keep container tightly closed.
 P240 - Ground and bond container and receiving equipment. P241 - Use explosion-proof equipment.
 P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
 P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product.
 P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .
 P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 - Immediately call a POISON CENTER or doctor.
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.
 P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up.
 P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition and information on ingredients

Name	CAS-No.	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanam	475645-84-2	≥ 30 – < 50	Flam. Liq. 1, H224 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318
Hydrocarbons, C10, aromatics, < 1% naphthalene	64742-94-5	≥ 3 – < 10	STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
3-(Polyoxyethylene)propylheptamethyltrisiloxane	67674-67-3	≥ 5 – < 10	Acute Tox. 4 (Inhalation), H332 Eye Dam. 1, H318 Aquatic Chronic 2, H411
3-aminopropyltriethoxysilane	919-30-2	≥ 3 – < 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317
Other substances (not contributing to the classification of this product)	-	25 – 59	-

SECTION 4: First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	Call a physician immediately.
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Symptoms caused by exposure

Symptoms/effects after skin contact	Burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact	Serious damage to eyes.
Symptoms/effects after ingestion	Burns.

4.3. Medical attention and special treatment

Treatment Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

5.2. Specific hazards arising from the chemical

Fire hazard Flammable liquid and vapour.
Hazardous decomposition products in case of fire Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Hazchem Code * 3Y

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.
Hygiene measures Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures Ground/bond container and receiving equipment.
 Storage conditions Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters - exposure standards

No additional information available

8.2. Biological Monitoring

No additional information available

8.3. Engineering controls

Appropriate engineering controls Ensure good ventilation of the work station.

8.4. Individual protection measures, such as personal protective equipment (PPE)

Hand protection Protective gloves. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer
 Eye protection Safety glasses
 Skin and body protection Wear suitable protective clothing. Long sleeved protective clothing. safety foot-wear
 Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition	Standard
Breathing equipment	Type A	In case of inadequate ventilation wear	

Environmental exposure controls Avoid release to the environment.

SECTION 9: Physical and chemical properties

Physical state Liquid
 Appearance No data available
 Colour Black
 Odour characteristic
 Odour threshold No data available
 pH No data available
 pH solution No data available
 Relative evaporation rate (butylacetate=1) No data available
 Melting point / Freezing point No data available
 Boiling point No data available
 Flash point 49 °C
 Auto-ignition temperature No data available
 Flammability No data available
 Vapour pressure No data available
 Relative density No data available
 Density Density: 0.94 g/ml
 Solubility No data available
 Log Pow No data available
 Explosive properties No data available
 Explosive limits No data available
 Minimum ignition energy No data available
 Fat solubility No data available

SECTION 10: Stability and reactivity

Reactivity Flammable liquid and vapour.

Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use. Explosive vapour/air mixtures may be formed
Conditions to avoid	Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition. Overheating. Avoid the build-up of electrostatic charge.
Incompatible materials	No additional information available
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

Acute toxicity (oral)	Harmful if swallowed.
Acute toxicity (dermal)	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	Not classified (Based on available data, the classification criteria are not met)

XPEL Pro Series Lite	
ATE AU (oral)	909.091 mg/kg bodyweight
Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3- (triethoxysilyl)-1-propanam (475645-84-2)	
ATE AU (oral)	500 mg/kg bodyweight
Hydrocarbons, C10, aromatics, < 1% naphtalene (64742-94-5)	
LD50 oral	3690 mg/kg
LD50 dermal	4100 mg/kg
LC50 Inhalation - Rat	> 590 mg/m³
3-(Polyoxyethylene)propylheptamethyltrisiloxane (67674-67-3)	
ATE AU (gases)	4500 ppmv/4h
ATE AU (vapours)	11 mg/l/4h
ATE AU (dust,mist)	1.5 mg/l/4h
3-aminopropyltriethoxysilane (919-30-2)	
ATE AU (oral)	500 mg/kg bodyweight

Skin corrosion/irritation	Causes severe skin burns.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	Not classified (Based on available data, the classification criteria are not met)

3-aminopropyltriethoxysilane (919-30-2)	
LOAEL (oral, rat, 90 days)	600 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity Study in Rodents)
LOAEL (dermal, rat/rabbit, 90 days)	17 mg/kg bodyweight Animal: rabbit
NOAEL (oral, rat, 90 days)	200 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity Study in Rodents)

Aspiration hazard	Not classified (Based on available data, the classification criteria are not met)
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SECTION 12: Ecological information

12.1. Ecotoxicity

Ecology - general	Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	Harmful to aquatic life with long lasting effects.

Hydrocarbons, C10, aromatics, < 1% naphtalene (64742-94-5)	
LC50 fish 1	19 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
LC50 - Fish [2]	2.34 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	0.95 mg/l (Exposure time: 96 h - Species: Daphnia magna)
3-aminopropyltriethoxysilane (919-30-2)	
LC50 fish 1	> 934 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 Daphnia 1	331 mg/l Test organisms (species): Daphnia magna

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone Not classified (Based on available data, the classification criteria are not met)
 Other adverse effects No additional information available

XPEL Pro Series Lite	
Fluorinated greenhouse gases	False
Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3- (triethoxysilyl)-1-propanam (475645-84-2)	
Fluorinated greenhouse gases	False
Hydrocarbons, C10, aromatics, < 1% naphtalene (64742-94-5)	
Fluorinated greenhouse gases	False
3-(Polyoxyethylene)propylheptamethyltrisiloxane (67674-67-3)	
Fluorinated greenhouse gases	False




SECTION 13: Disposal considerations

Waste treatment methods Dispose of contents/container in accordance with licensed collector's sorting instructions.
 Additional information Flammable vapours may accumulate in the container.

SECTION 14: Transport information

In accordance with ADG / IMDG / IATA

ADG	IMDG	IATA
14.1. UN number		
1993	1993	1993
14.2. UN Proper Shipping Name		
FLAMMABLE LIQUID, N.O.S. (Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3- (triethoxysilyl)-1-propanam)	FLAMMABLE LIQUID, N.O.S. (Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3- (triethoxysilyl)-1-propanam)	Flammable liquid, n.o.s. (Cyclosilazanes, di- Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3- (triethoxysilyl)-1-propanam)

ADG	IMDG	IATA
14.1. UN number		
1993	1993	1993
14.2. UN Proper Shipping Name		
FLAMMABLE LIQUID, N.O.S. (Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3- (triethoxysilyl)-1-propanam)	FLAMMABLE LIQUID, N.O.S. (Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3- (triethoxysilyl)-1-propanam)	Flammable liquid, n.o.s. (Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3- (triethoxysilyl)-1-propanam)
14.3. Transport hazard class(es)		
3	3	3
		
14.4. Packing group		
III - Substances presenting low danger	III	III
14.5. Environmental hazards		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No

14.6. Special precautions for user

Specific storage requirement No data available
Shock sensitivity No data available

14.7. Additional information

Other information No supplementary information available

Transport by road and rail

UN-No. (ADG) 1993
Special provision (ADG) 223, 274
Limited quantities (ADG) 5L
Excepted quantities (ADG) E1
Packing instructions (ADG) P001, IBC03, LP01
Portable tank and bulk container instructions (ADG) T4
Portable tank and bulk container special provisions (ADG) TP1, TP29

Transport by sea

UN-No. (IMDG) 1993
Special provisions (IMDG) 223, 274, 955
Limited quantities (IMDG) 5 L
Excepted quantities (IMDG) E1
Packing instructions (IMDG) LP01, P001
IBC packing instructions (IMDG) IBC03
Tank instructions (IMDG) T4
Tank special provisions (IMDG) TP1, TP29
Stowage category (IMDG) A

Air transport

UN-No. (IATA) 1993
PCA Excepted quantities (IATA) E1
PCA Limited quantities (IATA) Y344
PCA limited quantity max net quantity (IATA) 10L
PCA packing instructions (IATA) 355
PCA max net quantity (IATA) 60L

CAO packing instructions (IATA)	366
CAO max net quantity (IATA)	220L
Special provisions (IATA)	A3
ERG code (IATA)	3L

14.8. Hazchem or Emergency Action Code

Hazchem Code	* 3Y
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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations

Australian Industrial Chemicals Introduction Scheme (AICIS)

Australian Inventory of Industrial Chemicals (AICIS Inventory) status All the chemicals contained in this product are listed introductions

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

No additional information available

Australian Pesticides and Veterinary Medicines Authority (APVMA)

No additional information available

15.2. International agreements

No additional information available

Abbreviations and acronyms

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF - Bioconcentration factor ATE - Acute Toxicity Estimate
DMEL - Derived Minimal Effect level DNEL - Derived-No Effect Level
IATA - International Air Transport Association IMDG - International Maritime Dangerous Goods
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail DOT - Department of Transport
TDG - Transportation of Dangerous Goods
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
GHS - Globally Harmonized System of Classification, Labelling and Packaging of Chemicals IARC - International Agency for Research on Cancer
vPvB - Very Persistent and Very Bioaccumulative PBT - Persistent Bioaccumulative Toxic
PNEC - Predicted No-Effect Concentration
IBC-Code - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
MARPOL 73/78 - MARPOL 73/78: International Convention for the Prevention of Pollution From Ships
ADG - Transport of Australian Dangerous Goods BLV - Biological limit value
BOD - Biochemical oxygen demand (BOD) COD - Chemical oxygen demand (COD) EC-No. - European Community number EC50 - Median effective concentration
EN - European Standard
LC50 - Median lethal concentration LD50 - Median lethal dose
LOAEL - Lowest Observed Adverse Effect Level NOAEC - No-Observed Adverse Effect Concentration NOAEL - No-Observed Adverse Effect Level
NOEC - No-Observed Effect Concentration
OECD - Organisation for Economic Co-operation and Development OEL - Occupational Exposure Limit
SDS - Safety Data Sheet
STP - Sewage treatment plant
ThOD - Theoretical oxygen demand (ThOD) TLM - Median Tolerance Limit
VOC - Volatile Organic Compounds
CAS-No. - Chemical Abstract Service number
N.O.S. - Not Otherwise Specified ED - Endocrine disruptor

Other information

Data of sections 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities. The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. The delivery specifications are contained in the corresponding product sheet. This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

Classification	
Flam. Liq. 3	H226
Acute Tox. 4 (Oral)	H302
Skin Corr. 1A	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Aquatic Chronic 3	H412

Full text of H-statements	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 1	Flammable liquids, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
H224	Extremely flammable liquid and vapour
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should therefore not be construed as guaranteeing any specific property of the product.