

CONNECTOR COATING

4229 Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Identifier: 4229

Other Means of Identification: Connector Coating

Related Part # 4229-55ML, 4229-1L, 4229-4L

Recommended Use and Restriction on Use

Uses: Electrically insulating coating used as an electrical tape substitute

Uses Advised Against: Not available

Details of Manufacturer or Importer

Manufacturer MG Chemicals 1210 Corporate Drive Burlington, Ontario L7L 5R6 CANADA

MG Chemicals (Head Office) 9347-193 Street Surrey, British Columbia V4N 4E7 CANADA

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E-маіL (Competent Person): <u>sds@mgchemicals.com</u>

Emergency Phone Number

For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents) USA or CANADA—Call Verisk 3E at **+1-866-519-4752** or **+1-760-476-3962** (Service access code: 335388)

For emergencies involving the transport of dangerous goods; 24/7 service CANADA—Call CANUTEC collect at **+1-613-996-6666** or ***666** on cellular phones

Page **1** of **18**



4229

CONNECTOR COATING

Section 2: Hazard(s) Identification

Classification of Hazardous Chemical

GHS Categories

Criteria		Category	Signal Word	Pictograms
Flammable liquid		2	Danger	Flame
Carcinogenicity		2	Warning	Health
Reproductive Toxicity		2	Warning	Health
Specific target organ toxicity	Repeated exposure	2	Warning	Health
Eye Irritation		2	Warning	Exclamation
Skin Irritation		2	Warning	Exclamation
Specific target organ toxicity	Single exposure	3	Warning	Exclamation
Hazardous to the Aquatic Environment Chronic		2	None	Environment

Note: The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity), which is opposite to HMIS and NFPA conventions. Severity category rankings do not allow comparisons between classes.

Label Elements

Signal Word	DANGER
Pictograms	Hazard Statements
	H225: Highly flammable liquid and vapor
	H373: May cause damage to central nervous system or inner ear through prolonged or repeated exposure
	H351: Suspected of causing cancer
	H361: Suspected of damaging fertility or the unborn child
$\mathbf{\wedge}$	H319: Causes serious eye irritation
	H315: Causes skin irritation
•	H336: May cause dizziness or drowsiness
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Section continued on the next page

Page 2 of 18



ISO 9001:2015 Quality Management System SAI Global File #004008

Burlington, Ontario, Canada

4229

CONNECTOR COATING

Pictograms	Hazard Statements
¥2	H411: Toxic to aquatic life with long lasting effects
Prevention	Precautionary Statements
P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof equipment.
P243	Take action to prevent static discharge.
P260	Do not breathe mist or vapors.
P271	Use only outdoors or in a well-ventilated area.
P233	Keep container tightly closed.
P280	Wear protective gloves, protective clothing, eye protection, and face protection.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
Response	Precautionary Statements
P370 + P378	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.
P308 + P313	IF exposed or concerned: Get medical advice or attention.
P304 + P340, P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE or doctor if you feel unwell.
P303 + P361 + P364 + P352	IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap and water.
P332 + P313	If skin irritation occurs: Get medical advice or attention.

Section continued on the next page

Page **3** of **18**



ISO 9001:2015 Quality Management System

SAI Global File #004008

Burlington, Ontario, Canada

CONNECTOR COATING

Continued	
Response	Precautionary Statements
P305 + P351 + P358	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
P337 + P313	If eye irritation persists: Get medical attention.
P391	Collect spillage.
Storage	Precautionary Statements
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
Disposal	Precautionary Statements
P501	Dispose of contents in accordance to local, regional, national, and international regulations.

Hazards Not Otherwise Classified

Other Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
None	None	None	None

Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	%(weight)
64742-89-8	solvent naphtha (petroleum), light aliphatic	30-60%
110-54-3	n-hexane	10-30%
1330-20-7	xylene (mixed isomers)	10-30%
67-64-1	acetone	5-10%
100-41-4	ethylbenzene	1-5%
112945-52-5	silica, amorphous fumed	1-5%
1333-86-4	carbon black	0.1-1%



4229

CONNECTOR COATING

Section 4: First-Aid Measures				
Exposure Condition	GHS Code/Symptoms/Precautionary Statements			
IF ON SKIN (or hair)	P303 + P361 + P364 + P352, P332 + P313, P308 + P313			
Immediate Symptoms	irritation, redness, dry skin			
Response	Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap and water.			
	If skin irritation occurs: Get medical advice or attention.			
	EN CAS d'exposition prouvée ou suspectée : Demander un avis médical ou consulter un médecin.			
IF IN EYES	P305 + P351 + P338, P310, P337 + P313			
Immediate Symptoms	irritation, tearing, redness, pain, blurred vision			
Response	Rinse cautiously with water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
	If eye irritation persists: Get medical attention.			
IF INHALED	P304 +P340, P312, P308 + P313			
Immediate Symptoms	respiratory irritation			
Response	Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing.			
	Call a POISION CENTER or doctor if you feel unwell.			
	IF exposed or concerned: Get medical advice or attention.			
IF SWALLOWED	P301 + P330 + P331, P312			
Immediate Symptoms	irritation, nausea, vomiting			
Response	Rinse mouth. Do NOT induce vomiting.			
	Call a POISION CENTER or doctor if you feel unwell.			

Page **5** of **18**



4229

CONNECTOR COATING

Section 5: Fire-Fighting Measures			
Extinguishing Media	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.		
	Use water spray to cool containers.		
Specific Hazards	The vapors are heavier than air and may accumulate in low- lying areas. Vapors may travel long distances and ignite at an ignition source, which can cause a flashback or an explosion.		
	Prevent fire-fighting wash from entering waterway or sewer system.		
Combustion Products	Produces carbon oxides (CO, CO ₂).		
Fire-fighters	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.		

Section 6: Accidental Release Measures

Personal Protection	Use personal protection recommended in Section 8.
Precautions for Response	Do not breathe fumes or vapors. Remove all sources of ignition. Keep away from extreme heat or open flames.
Environmental Precautions	Prevent spill from entering drains and waterways.
Containment Methods	Contain with inert absorbent (such as soil, sand, vermiculite).
Cleaning Methods	Collect liquid in a sealable, solvent-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wash spill area with soap and water to remove the last traces of residue.
	Recommendation: Use a grounded stainless steel or carbon steel container or a solvent resistant plastic container.
Disposal Methods	Dispose of spill waste according to Section 13.

Page 6 of 18



CONNECTOR COATING

Section 7: Handling and Storage		
Prevention	Keep out of reach of children.	
	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.	
	Do not breathe fume or vapors. Use only outdoors or in well- ventilated area. Keep container tightly closed.	
	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
	Use explosion proof equipment. Take action to prevent static discharge. For large metal containers, ground and bond container and receiving equipment. Use explosion-proof equipment.	
	Avoid release to the environment.	
Handling	Wear protective gloves, protective clothing, and eye protection.	
	Take off immediately all contaminated clothing and wash it before reuse.	
	Wash hands thoroughly after handling.	
Storage	Store in a well-ventilated area. Keep cool.	
	Store locked up.	

Section 8: Exposure Controls/Personal Protection

Substances with Occupational Exposure Limit Values

Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
n-hexane	ACGIH	50 ppm	Not established
	U.S.A. OSHA PEL	50 ppm	Not established
	Canada AB	50 ppm	Not established
	Canada BC	50 ppm	Not established
	Canada ON	50 ppm	Not established
	Canada QC	50 ppm	Not established
xylene	ACGIH	100 ppm	Not established
(mixed isomers)	U.S.A. OSHA PEL	100 ppm	150 ppm
	Canada AB	500 ppm	150 ppm
	Canada BC	100 ppm	150 ppm
	Canada ON	100 ppm	150 ppm
	Canada QC	100 ppm	150 ppm

Section continued on the next page

Page **7** of **18**

Revision Date: 06 March 2020 / Ver. 2.04

4229



4229

CONNECTOR COATING

Continued			
Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
acetone	ACGIH	500 ppm	750 ppm
	U.S.A. OSHA PEL	1 000 ppm	1 000 ppm
	Canada AB	500 ppm	750 ppm
	Canada BC	250 ppm	500 ppm
	Canada ON	500 ppm	750 ppm
	Canada QC	750 ppm	1 000 ppm
ethylbenzene	ACGIH	100 ppm	Not established
	U.S.A. OSHA PEL	100 ppm	125 ppm
	Canada AB	150 ppm	200 ppm
	Canada BC	20 ppm	Not established
	Canada ON	100 ppm	125 ppm
	Canada QC	100 ppm	125 ppm
carbon black ^{a)}	ACGIH	3.5 mg/m ³	Not established
	U.S.A. OSHA PEL	3.5 mg/m ³	Not established
	Canada AB	3.5 mg/m ³	Not established
	Canada BC	3 mg/m ³	Not established
	Canada ON	3.5 mg/m ³	Not established
	Canada QC	3.5 mg/m ³	Not established

Note: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH¹, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the RTECS database² and from suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

a) Respirable airborne particles

Engineering Controls

Ventilation

Keep airborne concentrations below the occupational exposure limits (OEL).

Section continued on the next page

Page 8 of 18



4229

CONNECTOR COATING

Personal Protective Equipment

Eye/Face Protection	Wear appropriate protective eyeglasses or chemical safety goggles.
	RECOMMENDATION: Ensure that glasses have side shields for lateral protection.
Skin Protection	For full contact, use of protective gloves in viton or other chemically resistant gloves.
	For incidental splash contact, use nitrile rubber or other chemically resistant gloves.
Respiratory Protection	For over-exposures up to 10 x OEL of mist, vapors, or spray, wear respirator such as a half-mask respirator with organic vapor cartridges and particulate filter.
	Above 10 x OEL, use a positive-pressure, air-supplied respirator or a self-contained breathing apparatus.
	RECOMMENDATION: Consult your local safety supply store to ensure that your respirator has a NIOSH (U.S.) approved filter cartridges appropriate for the ingredients listed in Section 3. The respirator should be fitted to the employee by a professional. Ensure vapor cartridges are stored in sealed plastic bags when not being used.

General Hygiene Considerations

Wash hands thoroughly with water and soap after handling.

Page **9** of **18**



4229

CONNECTOR COATING

Section 9: Physical and Chemical Properties			
Physical State	Liquid	Lower Flammability Limit ^{a)}	1%
Appearance	Black	Upper Flammability Limit ^{a)}	9%
Odor	Aromatic hydrocarbon	Vapor Pressure @20 °C	25 kPa [185 mmHg]
Odor Threshold	Not available	Vapor Density	>2 (Air = 1)
рН	Not available	Relative Density @25 °C	0.83
Freezing/Melting Point	Not available	Solubility in Water	Insoluble
Initial Boiling Point	≥56 °C [≥133 °F]	Partition Coefficient n-octanol/water	Not available
Flash Point	-19.5 °C [-3.1 °F]	Auto-ignition Temperature ^{a)}	Not available
Evaporation Rate	>1 (ButAc =1)	Decomposition Temperature	Not available
Flammability	Highly Flammable	Viscosity @25 °C	3 970 mm²/s

a) Calculated based on Raoult's Law and using Le Chatelier principle

Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	Chemically stable at normal temperatures and pressures.
Possible Hazardous reactions	No hazardous polymerization
Conditions to Avoid	Ignition sources, excessive heat, and incompatible substances. Vapors may form explosive mixture with air.
Incompatibilities	Strong oxidizing agents, strong bases, strong acids, alkali metals
Decomposition	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.



4229

CONNECTOR COATING

Section 11: Toxicological Information

Summary of Effects and S	ymptoms b	by Routes of Exposure
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Eyes	Causes moderate to severe irritation, tearing redness, pain, and blurred vision.
Skin	Causes moderate skin irritation, redness, and dry skin.
Inhalation	May cause irritation of the respiratory tract.
Ingestion	May cause irritation, nausea, vomiting.
Chronic	Prolonged or repeated exposure may cause skin dryness and cracking, and defat skin.
	Chronic exposure with co-exposure to loud noises may lead to hearing loss. Long term exposure to loud noises and vapors of xylene and ethylbenzene may lead to some hearing loss and kidney damage (nephropathy). Chronic inhalation or ingestion of large doses may cause central nervous system depression.
	Prolonged and repeated exposure is possibly carcinogenic based on animal inhalation studies.
	Ingestion or inhalation of material, mist, or vapor during pregnancy increases the chances fetal death and developmental defects.

Acute Toxicity (Lethal Exposure Concentrations)

Chemical Name	LD50	LD50	LC50
	oral	dermal	inhalation
solvent naphtha (petroleum),	>5 000 mg/kg	>2 000 mg/kg	Not
light aliphatic	Rat	Rabbit	available
n-hexane	15 480 mg/kg	>1.3 g/kg	627 000 ppm
	Rat	Rabbit ^{b)}	3 min Rat
xylene	4 350 mg/kg	>1 700 mg/kg	5 000 ppm
	Rat	Rabbit	4 h Rat
acetone	5 800 mg/kg	>9 400 µL/kg	44 g/m³
	Rat	Guinea pig	4 h Rat
ethylbenzene	3 500 mg/kg	>5 000 mg/kg	35 500 mg/m ³
	Rat	Rabbit	2 h Mouse

Section continued on the next page

Page **11** of **18**



4229

CONNECTOR COATING

Continued			
Chemical Name	LD50	LD50	LC50
	oral	dermal	inhalation
silica, amorphous fumed	3 160 mg/kg	Not	Not
	Rat	available	available
carbon black	>15 g/kg	>3 g/kg	Not
	Rat	Rabbit	available

Note: Toxicity data from the RTECS² and ECHA databases were consulted. The data from supplier SDS were also consulted.

Other Toxicological Effects	
Skin corrosion/irritation	Provoke a skin irritation according to Draize test on animals.
Serious eye damage/irritation	Causes a serious eye irritation according to Draize tests on animals.
Respiratory or Skin Sensitization (allergic reactions)	Based on available data, the classification criteria are not met.
Carcinogenicity	Ethylbenzene [100-41-4]
(risk of cancer)	IARC Group 2B: Possibly carcinogenic to humans
	ACGIH A3: Confirmed animal carcinogen with unknown relevance to humans
	CA Prop 65: Listed as a carcinogen
	NTP: Not listed
	Carbon Black [1333-86-4]
	IARC Group 2B: Possibly carcinogenic to humans
	ACGIH A4: Not classified as a human carcinogen
	CA Prop 65: Listed as a carcinogen (airborne, as unbound particles of respirable size)
	NTP: Not listed
Mutagenicity (risk of heritable genetic effects)	Based on available data, the classification criteria are not met.

Section continued on the next page

Page **12** of **18**



ISO 9001:2015 Quality Management System SAI Global File #004008

Burlington, Ontario, Canada

4229

CONNECTOR COATING

Reproductive Toxicity (risk to sex functions)	Based on available data, the classification criteria are not met.
Teratogenicity (risk of fetus malformation)	The n-hexane component causes harm to fetus according to animal studies.
STOT-single exposure	Inhalation of solvent naphtha (petroleum), n-hexane, and xylene isomers can affect the central nervous system causing drowsiness or dizziness.
STOT-repeated exposure	Prolonged or repeated over-exposure to p-xylene and ethylbenzene and noise can lead to hearing loss (cochlear impairment) according to rat inhalation studies.
	At high levels of exposures, ethylbenzene causes damage of the liver.
Aspiration hazard	Does not meet classification criteria. The mixture has about 63% cat 1 components, but its kinematic viscosity is well above the 20.5 mm ² /s threshold at 40 °C.

Section 12: Ecological Information

Ecological classifications are based on the IMDG/GHS criteria in conjunction with ecotoxicological data from our suppliers, the European Chemical Agency database (<u>http://echa.europa.eu</u>), and other reliable sources.

The solvent naphtha (petroleum), light aliphatic and n-hexane components are classified as chronic category 2 environmental toxicants.

Xylene isomers are an acute category 2 environmental toxicant with minimal LC50 of 2.5 mg/L for fish; EC50 1 mg/L 48 h Daphnia magna (water flea).

Ethylbenzene is an acute category 2 environmental toxicant with minimal LC50 of 4.2 mg/L for Oncorhynchus mykiss (rainbow trout); EC50 2.9 mg/L 48 h Daphnia magna (water flea).

Acetone is not toxic to the aquatic environment with a LC50 96 h of 5 540 mg/L for Oncorhynchus mykiss (rainbow trout) and EC50 48 h of 13 500 mg/L for Daphnia magna (water flea).

Fumed silica and carbon black are non-hazardous for the environment for according to GHS classification criteria.

Section continued on the next page

Page **13** of **18**



4229

CONNECTOR COATING

Acute Ecotoxicity

See the chronic ecotoxity.

Chronic Ecotoxicity

Category 2 Toxic to aquatic life with long lasting effects Avoid release to the environment. Collect spillage.

Biodegradability

Not available

Bioaccumulative Potential

No data available

Other Adverse Effects

Volatile Organic Compound (VOC) = 67% [556 g/L]

Section 13: Disposal Considerations

Dispose of contents in accordance with all local, regional, national, and international regulations.

Section 14: Transport Information

Ground

Refer to TDG regulations (Canadian Transportation of Dangerous Goods regulations); **USA CFR 49 Regulations** (Parts 100 to 185).

Sizes 5 L and under 4229-55ML, 4229-1L, 4229-4L Limited Quantity



Section continued on the next page

Page 14 of 18



4229

CONNECTOR COATING

Air

Refer to ICAO-IATA Dangerous Goods Regulations.		
Sizes 0.5 L and under <i>4229-55ML</i> Limited Quantity Y	Sizes up to 5 L (passenger) 60 L (cargo) 4229-1L, 4229-4L UN number: UN1139 Shipping Name: COATING SOLUTION Class: 3 Packing Group: II	
Total Net Qty/Outer Pkg = 1 L	Marine Pollutant: Yes	

Sea

Refer to IMDG regulations.

Sizes 5 L and under 4229-55ML, 4229-1L, 4229-4L Limited Quantity



FOR REFERENCE ONLY UN number: UN1139 Shipping Name: COATING SOLUTION Class: 3 Packing Group: II Marine Pollutant: Yes

Note: Shipper must be appropriately <u>trained and certified</u> before involvement with the transport of dangerous goods.

Section 15: Regulatory Information

Canada

Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)

All hazardous ingredients are listed on the DSL/NDSL.

Hazardous Products Act (R.S.C., 1985, c. H-3)

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2015.

Section continued on the next page

Page **15** of **18**



4229

CONNECTOR COATING

USA

Other Classifications

HMIS® RATING

HEALTH:	* 2
FLAMMABILITY:	3
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend:

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

CAA (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product contains n-hexane, xylene, and ethylbenzene, which are listed as hazardous air pollutants.

EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45

This product contains n-hexane (CAS# 110-54-3; reportable quantity = 100 lb), xylene (CAS# 1330-20-7, reportable quantity = 100 lb), and ethylbenzene (CAS# 100-41-4; reportable quantity = 1 000 lb), which are subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

This product contains acetone (CAS# 78-93-3, reportable quantity = 5 000 lb), which can be subject to the CERCLA reporting requirements.

TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

California Proposition 65

(Chemicals known to cause cancer or reproductive toxicity, USA).

This product contains n-hexane, which is listed as reproductively toxic in California.

This product contains carbon black (airborne, unbound particles of respirable size), which is listed as a carcinogen.

This product contains ethylbenzene, which are listed as a carcinogen.

Section continued on the next page

Page 16 of 18



4229

CONNECTOR COATING

Europe

RoHS (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.

WEEE (Waste Electrical and Electronic Equipment Directive)

This product is not a piece of electrical or electronics equipment and is therefore not governed by this regulation.

Section 16: Other Information	
Prepared by the	Regulatory Affairs Department
Date of Revision	06 March 2020
Supersedes	18 November 2019
Reason for Changes:	Update to the emergency phone number information and general revision.

References

1) ACGIH 2017 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2017).

2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

Section continued on the next page

Page **17** of **18**



4229

ISO 9001:2015 Quality Management System SAI Global File #004008 Burlington, Ontario, Canada

CONNECTOR COATING

Abbreviations

- ACGIH American Conference of Governmental Industrial Hygienists (USA)
- EC50 Half maximal effective concentration
- EL50 Half maximal effective loading
- NOELR No observable effect loading ratio
- GHS Globally Harmonized System of Classification of Labeling of Chemicals
- LC50 Lethal Concentration 50%
- LCLo Lowest published lethal concentration
- LD50 Lethal Dose 50%
- OEL Occupational Exposure Limit
- PEL Permissible Exposure Limit
- STEL Short-Term Exposure Limit
- TCLo Lowest published toxic concentration
- TWA Time Weighted Average
- VOC Volatile Organic Content

Technical Queries Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at <u>www.mgchemicals.com</u>.

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Page **18** of **18**