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### **1** Identification

- · Product identifier
- · Trade name: THJ2201 (exempt preparation)
- · Article number: 22860
- **Application of the substance / the mixture** This product is for research use - Not for human or veterinary diagnostic or therapeutic use.
- · Details of the supplier of the safety data sheet
- **Manufacturer/Supplier:** Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA
- Information department: Product safety department
   Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

# 2 Hazard(s) identification

<i>r</i> flammable liquid and vapor.	ammable Liquids 2
	GHS06 Skull and crossbones
if swallowed.	cute Toxicity - Oral 3
in contact with skin.	cute Toxicity - Dermal 3
if inhaled.	cute Toxicity - Inhalation 3
	$\mathbf{\land}$
	GHS08 Health hazard
	V
es damage to the central nervou n and the visual organs.	ecific Target Organ Toxicity - Single Ex

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(Contd. from page 1)	)		
· Label elements			
· GHS label elements			
The product is classified and labeled according to the Globally Harmonized System (GHS).			
· Hazard pictograms			
$\wedge \wedge \wedge$			
GHS02 GHS06 GHS08			
Signal word Danger			
<ul> <li>Hazard-determining components of labeling: Methanol</li> </ul>			
· Hazard statements			
H225 Highly flammable liquid and vapor.			
H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.			
H370 Causes damage to the central nervous system and the visual organs.			
Precautionary statements			
P210 Keep away from heat/sparks/open flames/hot surfaces No smoking.			
P240 Ground/bond container and receiving equipment.			
P241 Use explosion-proof electrical/ventilating/lighting/equipment.			
P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge.			
P260 Do not breathe dust/fume/gas/mist/vapors/spray.			
P264 Wash thoroughly after handling.			
P270 Do not eat, drink or smoke when using this product.			
P271 Use only outdoors or in a well-ventilated area.			
P280 Wear protective gloves/protective clothing/eye protection/face protection.			
P301+P310 If swallowed: Immediately call a poison center/doctor.			
P321 Specific treatment (see on this label).			
P330 Rinse mouth.	_		
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	1		
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.			
P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.			
P312 Call a poison center/doctor if you feel unwell.			
P361+P364 Take off immediately all contaminated clothing and wash it before reuse.			
P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.			
P403+P233 Store in a well-ventilated place. Keep container tightly closed.			
P403+P235 Store in a well-ventilated place. Keep cool.			
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international	л		
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	1		
· Classification system:			
· NFPA ratings (scale 0 - 4)			
$\frac{3}{1000}$ Health = 0			
Fire = 3			
$0 0  \mathbf{R} = 0$			
· HMIS-ratings (scale 0 - 4)			
HEALTH $^{*0}$ Health = *0			
REACTIVITY 0 Reactivity = 0			
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99.9%

0.1%

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- · Other hazards
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

#### **3 Composition/information on ingredients**

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

- · Dangerous components:
- CAS: 67-56-1 Methanol
- RTECS: PC1400000
- Other ingredients

1801552-01-1 THJ2201

#### **4 First-aid measures**

#### · Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed

May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. No further relevant information available.

• Indication of any immediate medical attention and special treatment needed No further relevant information available.

### **5** Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Special hazards arising from the substance or mixture

67-56-1During heating or in case of fire poisonous gases are produced.

- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

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6 Accidental release measures         Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.         Wear protective equipment. Keep unprotected persons away.         Environmental precautions:         Dilute with plenty of water.         Do not allow to enter severs/ surface or ground water.         Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).         Dispose contaminated material as waste according to item 13.         Ensure adequate ventilation.         Reference to other sections         See Section 16 for information on safe handling.         See Section 16 for disposal information.         Protective Action Criteria for Chemicals         • PAC-1:         67-56-1 [Methanol         2,100 ppm         • PAC-2:         67-56-1 [Methanol         7200* ppm         PAC-3:         67-56-1 [Methanol         7200* ppm         PAC-3:         67-56-1 [Methanol         7200* ppm            7 Handling and storage            • Handling:         • Proceutions for safe handling         Ensure good ventilation/exhaustion at the workplace.         Open and handle rec		
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See Section 13 for disposal information.         Protective Action Criteria for Chemicals         PAC-1:         67-56-1       Methanol         530 ppm         PAC-2:         67-56-1       Methanol         2,100 ppm         PAC-3:         67-56-1       Methanol         7200* ppm         PAC-3:         67-56-1         Methanol         7200* ppm             7 Handling and storage             7 Handling and storage              8 Precautions for safe handling          Ensure good ventilation/exhaustion at the workplace.         Open and handle receptacle with care.         Prevent formation about protection against explosions and fires:         Keep ignition sources away - Do not smoke.         Protect against electrostatic charges.         Keep respiratory protective device available.         Conditions for safe storage, including any incompatibilities         Storage: Store in accordance with information listed on the product insert.         Requirements to be met by storerooms and receptacles: Store in a cool location.         Information about storage in one common storage facility: Not required.         Further information about storage conditions:      <	<ul> <li>Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.         </li> <li>Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.         </li> <li>Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust) Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Reference to other sections See Section 7 for information on safe handling.         </li> </ul>	).
<ul> <li>PAC-1:</li> <li>67-56-1 Methanol</li> <li>530 ppm</li> <li>PAC-2:</li> <li>67-56-1 Methanol</li> <li>2,100 ppm</li> <li>PAC-3:</li> <li>67-56-1 Methanol</li> <li>7200* ppm</li> </ul> 7 Handling and storage 7 Handling: <ul> <li>Precautions for safe handling</li> <li>Ensure good ventilation/exhaustion at the workplace.</li> <li>Open and handle receptacle with care.</li> <li>Prevent formation of aerosols.</li> <li>Information about protection against explosions and fires:</li> <li>Keep respiratory protective device available.</li> <li>Conditions for safe storage, including any incompatibilities</li> <li>Storage: Store in accordance with information listed on the product insert.</li> <li>Requirements to be met by storerooms and receptacles: Store in a cool location.</li> <li>Information about storage in one common storage facility: Not required.</li> <li>Further information about storage conditions:</li> <li>Keep receptacle tightly sealed.</li> <li>Store in cool, dry conditions in well sealed receptacles.</li> </ul>	See Section 13 for disposal information.	
<ul> <li>PAC-2:</li> <li>67-56-1 Methanol</li> <li>2,100 ppm</li> <li>PAC-3:</li> <li>67-56-1 Methanol</li> <li>7200* ppm</li> </ul> 7 Handling and storage 7 Handling: <ul> <li>Precautions for safe handling</li> <li>Ensure good ventilation/exhaustion at the workplace.</li> <li>Open and handle receptacle with care.</li> <li>Prevent formation of aerosols.</li> <li>Information about protection against explosions and fires:</li> <li>Keep ignition sources away - Do not smoke.</li> <li>Protect against electrostatic charges.</li> <li>Keep respiratory protective device available.</li> <li>Conditions for safe storage, including any incompatibilities</li> <li>Storage: Store in accordance with information listed on the product insert.</li> <li>Requirements to be met by storerooms and receptacles: Store in a cool location.</li> <li>Information about storage conditions:</li> <li>Keep receptacle tightly sealed.</li> <li>Store in cool, dry conditions in well sealed receptacles.</li> </ul>		]
67-56-1       Methanol       2,100 ppm         • PAC-3:       67-56-1       Methanol       7200* ppm         67-56-1       Methanol       7200* ppm         • Handling:       •       •         • Precautions for safe handling       •       •         Ensure good ventilation/exhaustion at the workplace.       Open and handle receptacle with care.       •         Prevent formation of aerosols.       •       •       •         • Information about protection against explosions and fires:       Keep ignition sources away - Do not smoke.       •         Protect against electrostatic charges.       Keep respiratory protective device available.       •       •         • Conditions for safe storage, including any incompatibilities       •       •       •         • Storage: Store in accordance with information listed on the product insert.       •       •       •         • Information about storage in one common storage facility: Not required.       •       •       •         • Further information about storage conditions:       Keep receptacle tightly sealed.       •       •         • Store in cool, dry conditions in well sealed receptacles.       •       •       •       •		530 ppm
PAC-3:       7200* ppm         67-56-1       Methanol       7200* ppm         7 Handling and storage       7200* ppm         7 Handling:       Precautions for safe handling         Ensure good ventilation/exhaustion at the workplace.       Open and handle receptacle with care.         Prevent formation of aerosols.       Protect against electrostatic charges.         Keep ignition sources away - Do not smoke.       Protect against electrostatic charges.         Keep respiratory protective device available.       Conditions for safe storage, including any incompatibilities         • Storage: Store in accordance with information listed on the product insert.       Requirements to be met by storerooms and receptacles: Store in a cool location.         Information about storage in one common storage facility: Not required.       Further information about storage conditions:         Keep receptacle tightly sealed.       Store in cool, dry conditions in well sealed receptacles.	PAC-2:	
67-56-1       Methanol       7200* ppm         7       Handling and storage       7         * Handling:       Precautions for safe handling       7         Ensure good ventilation/exhaustion at the workplace.       0       0         Open and handle receptacle with care.       Prevent formation of aerosols.       7         Information about protection against explosions and fires:       Keep ignition sources away - Do not smoke.       7         Protect against electrostatic charges.       Keep respiratory protective device available.       7       6         * Conditions for safe storage, including any incompatibilities       5       5       5       1         * Requirements to be met by storerooms and receptacles: Store in a cool location.       1       1       1         * Information about storage in one common storage facility: Not required.       5       5       1         * Further information about storage conditions:       Keep receptacle tightly sealed.       5       5         Store in cool, dry conditions in well sealed receptacles.       5       5       5       5	67-56-1 Methanol 2	.,100 ppm
<ul> <li>7 Handling and storage</li> <li>Handling:</li> <li>Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.</li> <li>Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.</li> <li>Conditions for safe storage, including any incompatibilities</li> <li>Storage: Store in accordance with information listed on the product insert.</li> <li>Requirements to be met by storerooms and receptacles: Store in a cool location.</li> <li>Information about storage in one common storage facility: Not required.</li> <li>Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.</li> </ul>	PAC-3:	
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• Additional information about design of technical systems: No further data; see item 7. (Contd. on page 5)

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(Contd. from page 4) · Control parameters · Components with limit values that require monitoring at the workplace: 67-56-1 Methanol PEL Long-term value: 260 mg/m<sup>3</sup>, 200 ppm REL Short-term value: 325 mg/m<sup>3</sup>. 250 ppm Long-term value: 260 mg/m<sup>3</sup>, 200 ppm Skin Short-term value: 250 ppm TLV Long-term value: 200 ppm Skin; BEI · Ingredients with biological limit values: 67-56-1 Methanol BEI 15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific) · Additional information: The lists that were valid during the creation were used as basis. · Exposure controls · Personal protective equipment: · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin. · Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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• Eye protection:



Tightly sealed goggles

#### 9 Physical and chemical properties · Information on basic physical and chemical properties General Information · Appearance: Form: Liquid Color: Colorless · Odor: Alcohol-like · Structural Formula C23H21FN2O · Molecular Weight 360.4 g/mol · Odor threshold: Not determined. · Formulation A 1 mg/ml solution in methanol · pH-value: Not determined. · Change in condition Melting point/Melting range: -98 °C (-144.4 °F) **Boiling point/Boiling range:** 64.7 °C (148.5 °F) · Flash point: 11 °C (51.8 °F) · Flammability (solid, gaseous): Highly flammable. 455 °C (851 °F) · Ignition temperature: Decomposition temperature: Not determined. · Auto igniting: Product is not selfigniting. Danger of explosion: Product is not explosive. However, formation of explosive air/ vapor mixtures are possible. · Explosion limits: 5.5 Vol % Lower: 44 Vol % Upper: · Vapor pressure at 20 °C (68 °F): 128 hPa (96 mm Hg) Density at 20 °C (68 °F): 0.79 g/cm3 (6.59255 lbs/gal) Relative density Not determined. · Vapor density Not determined. · Evaporation rate Not determined. · Solubility in / Miscibility with Water: Fully miscible. · Partition coefficient (n-octanol/water): Not determined. · Viscositv: **Dynamic:** Not determined. **Kinematic:** Not determined. (Contd. on page 7)

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on available.

# **10 Stability and reactivity**

· Reactivity No further relevant information available.

- · Chemical stability
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- · Incompatible materials: reducing agents, oxidizing agents
- · Hazardous decomposition products: carbon monoxide, carbon dioxide

#### **11 Toxicological information**

· Information on toxicological effects

#### · Acute toxicity:

· LD/LC50 values	· LD/LC50 values that are relevant for classification:		
67-56-1 Methanol			
Oral	LDLO	143 mg/kg (hmn)	
	TDLO	5 ml/kg (rat)	
	LD50	5,600 mg/kg (rat)	
Dermal	LD50	15,800 mg/kg (rabbit)	
Inhalative	LC50/4 h	64,000 mg/m³ (rat)	
	LC50	61,100 mg/m³/134 m (mouse)	
Irritation of skin	Irritation	20 mg/24h (rabbit)	
	Irritation	(rabbit)	
	Irritation	5.63 mg/kg/exempt preparation (rabbit)	
Irritation of eyes	Irritation	40 mg (rabbit)	
	Intraperitoneal TDLO	5 mg/kg (rat)	
	Intraperitoneal LD50	10,765 mg/kg (mouse)	
	Subcutaneous LD50	143 mg/kg/human (mouse)	
	Data	20 mg/24h (rabbit)	

• Primary irritant effect:

· on the skin: No irritant effect.

· on the eye: No irritating effect.

• Sensitization: No sensitizing effects known.

• Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

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Toxic

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

# **12 Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

### **13 Disposal considerations**

#### · Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number		
DOT, IMDG, IATA	UN1230	
UN proper shipping name		
DOT, IATA	Methanol solution	
IMDĠ	METHANOL solution	

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	(Contd. from page
Transport hazard class(es)	
DOT	
RAMABLE LOUD 3 6	
Class Label	3 Flammable liquids 3, 6.1
IMDG	
Class Label	3 Flammable liquids 3/6.1
ΙΑΤΑ	
Class Label	3 Flammable liquids 3 (6.1)
Packing group	3 (0.1)
DOT, IMDG, IATA	Ш
Environmental hazards:	Not applicable.
Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category Stowage Code	Warning: Flammable liquids 336 F-E,S-D B SW2 Clear of living quarters.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT Quantity limitations	On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L
IMDG Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
IATA Remarks:	When sold in quantities of less than or equal to 1 m or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.10.
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	Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.	
· UN "Model Regulation":	UN 1230 METHANOL SOLUTION, 3 (6.1), II	

# **15 Regulatory information**

· Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara	
<ul> <li>Section 355 (extremely hazardous substances):</li> </ul>	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
67-56-1 Methanol	
· TSCA (Toxic Substances Control Act):	
67-56-1 Methanol	ACTIVE
· Hazardous Air Pollutants	
67-56-1 Methanol	
· Proposition 65	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
• Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
67-56-1 Methanol	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value)	
None of the ingredients is listed.	
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	

• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable. Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

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Department issuing SDS: Environment protection department.	
Contact: -	
Date of preparation / last revision 10/11/2022	
Abbreviations and acronyms:	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
VOC: Volatile Organic Compounds (USA, EU)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit BEI: Biological Exposure Limit	
Flammable Liquids 2: Flammable liquids – Category 2	
Acute Toxicity - Oral 3: Acute toxicity – Category 3	
Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 7	1