

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/30/2022

Reviewed on 05/30/2022

1 Identification

- **Product identifier**
- **Trade name: Series 640**
- **Article number: Series 640**
- **Application of the substance / the mixture** Printing inks
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
DECO TEChnology Group Inc.
PRINTCOLOR SCREEN AG
TEL (714) 639-3326
FAX (714) 639-2261
- **Information department:** Product safety department
- **Emergency telephone number:** 800-535-5053

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable Liquids 3

H226 Flammable liquid and vapor.



GHS08 Health hazard

Sensitization - Respiratory 1

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carcinogenicity 2

H351 Suspected of causing cancer. Route of exposure: Inhalation.

Toxic to Reproduction 2

H361 Suspected of damaging fertility or the unborn child.



GHS05 Corrosion

Eye Damage 1

H318 Causes serious eye damage.



GHS07

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure 3

H336 May cause drowsiness or dizziness.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02



GHS05



GHS07



GHS08

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· **Signal word** Danger

· **Hazard-determining components of labeling:**

butyl glycollate
Carbon black
2-methoxy-1-methylethyl acetate
maleic anhydride
4-isocyanatosulphonyltoluene
methyl methacrylate

· **Hazard statements**

Flammable liquid and vapor.
Causes serious eye damage.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
Suspected of causing cancer. Route of exposure: Inhalation.
Suspected of damaging fertility or the unborn child.
May cause drowsiness or dizziness.

· **Precautionary statements**

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves / eye protection.
Use personal protective equipment as required.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center/doctor.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
If skin irritation or rash occurs: Get medical advice/attention.
If experiencing respiratory symptoms: Call a poison center/doctor.
Wash contaminated clothing before reuse.
In case of fire: Use CO₂, powder or water spray to extinguish.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 3
Fire = 2
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = *3
Fire = 2
Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

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· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

CAS: 108-65-6	2-methoxy-1-methylethyl acetate	≥10-<20%
CAS: 54839-24-6	2-ethoxy-1-methylethyl acetate	≥10-<20%
CAS: 4435-53-4	3-methoxybutyl acetate	2.5-10%
CAS: 1333-86-4	Carbon black	2.5-10%
CAS: 7397-62-8	butyl glycollate	≥3-≤10%
	Phosphorsäurepolyester (72243-070628, Germany)	≥1-≤2.5%
CAS: 4083-64-1	4-isocyanatosulphonyltoluene	≥0.1-<1%
CAS: 868-77-9	2-hydroxyethyl methacrylate	≥0.1-<0.5%
CAS: 61791-15-9	Kokosalkylamin mit EO, Acetat	<0.5%
CAS: 80-62-6	methyl methacrylate	≥0.1-<0.5%
CAS: 77-99-6	propylidynetrimethanol	≥0.1-<0.5%
CAS: 108-31-6	maleic anhydride	≥0.001-<0.1%

4 First-aid measures

· **Description of first aid measures**

· **General information:** Immediately remove any clothing soiled by the product.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Immediately rinse with water.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed**

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.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Special hazards arising from the substance or mixture** No further relevant information available.

· **Advice for firefighters**

· **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources

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- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

CAS: 13463-67-7	titanium dioxide	30 mg/m ³
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
CAS: 1333-86-4	Carbon black	9 mg/m ³
CAS: 7631-86-9	silicon dioxide, chemically prepared	18 mg/m ³
CAS: 868-77-9	2-hydroxyethyl methacrylate	1.9 mg/m ³
CAS: 80-62-6	methyl methacrylate	17 ppm
CAS: 100-42-5	styrene	20 ppm
CAS: 7664-38-2	phosphoric acid	3 mg/m ³
CAS: 100-41-4	ethylbenzene	33 ppm
CAS: 78-83-1	butanol	150 ppm
CAS: 1344-28-1	aluminium oxide	15 mg/m ³
CAS: 70657-70-4	2-methoxypropyl acetate	50 ppm
CAS: 108-83-8	2,6-dimethylheptan-4-one	75 ppm
CAS: 108-31-6	maleic anhydride	0.2 ppm
CAS: 102-82-9	tributylamine	0.049 ppm
CAS: 91-20-3	naphthalene	15 ppm

· **PAC-2:**

CAS: 13463-67-7	titanium dioxide	330 mg/m ³
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
CAS: 1333-86-4	Carbon black	99 mg/m ³
CAS: 7631-86-9	silicon dioxide, chemically prepared	740 mg/m ³
CAS: 868-77-9	2-hydroxyethyl methacrylate	21 mg/m ³
CAS: 80-62-6	methyl methacrylate	120 ppm
CAS: 100-42-5	styrene	130 ppm
CAS: 7664-38-2	phosphoric acid	30 mg/m ³
CAS: 100-41-4	ethylbenzene	1100* ppm
CAS: 78-83-1	butanol	1,300 ppm
CAS: 1344-28-1	aluminium oxide	170 mg/m ³
CAS: 70657-70-4	2-methoxypropyl acetate	1,000 ppm
CAS: 108-83-8	2,6-dimethylheptan-4-one	330 ppm
CAS: 108-31-6	maleic anhydride	2 ppm
CAS: 102-82-9	tributylamine	0.54 ppm
CAS: 91-20-3	naphthalene	83 ppm

· **PAC-3:**

CAS: 13463-67-7	titanium dioxide	2,000 mg/m ³
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
CAS: 1333-86-4	Carbon black	590 mg/m ³

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CAS: 7631-86-9	silicon dioxide, chemically prepared	4,500 mg/m ³
CAS: 868-77-9	2-hydroxyethyl methacrylate	1,000 mg/m ³
CAS: 80-62-6	methyl methacrylate	570 ppm
CAS: 100-42-5	styrene	1100* ppm
CAS: 7664-38-2	phosphoric acid	150 mg/m ³
CAS: 100-41-4	ethylbenzene	1800* ppm
CAS: 78-83-1	butanol	8000* ppm
CAS: 1344-28-1	aluminium oxide	990 mg/m ³
CAS: 70657-70-4	2-methoxypropyl acetate	5,000 ppm
CAS: 108-83-8	2,6-dimethylheptan-4-one	2000* ppm
CAS: 108-31-6	maleic anhydride	20 ppm
CAS: 102-82-9	tributylamine	3.2 ppm
CAS: 91-20-3	naphthalene	500 ppm

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Prevent formation of aerosols.
Open and handle receptacle with care.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **Storage class:** 3
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

CAS: 108-65-6 2-methoxy-1-methylethyl acetate	
WEEL	Long-term value: 50 ppm
CAS: 1333-86-4 Carbon black	
PEL	Long-term value: 3.5 mg/m ³
REL	Long-term value: 3.5* mg/m ³ *0.1 in presence of PAHs; See Pocket Guide Apps.A+C
TLV	Long-term value: 3* mg/m ³ *inhalable fraction, A3
CAS: 80-62-6 methyl methacrylate	
PEL	Long-term value: 410 mg/m ³ , 100 ppm

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REL	Long-term value: 410 mg/m ³ , 100 ppm
TLV	Short-term value: 100 ppm Long-term value: 50 ppm DSEN, A4
CAS: 108-31-6 maleic anhydride	
PEL	Long-term value: 1 mg/m ³ , 0.25 ppm
REL	Long-term value: 1 mg/m ³ , 0.25 ppm
TLV	Long-term value: 0.01* mg/m ³ DSEN, RSEN;*inh. fraction + vapor, A4

· **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.

Pregnant women should strictly avoid inhalation or skin contact.

· **Breathing equipment:** Not required.

· **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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Butyl rubber, BR

· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Fluid

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· Color:	According to product specification
· Odor:	Characteristic
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	>140 °C (>284 °F)
· Flash point:	44 °C (111.2 °F) (Abel Pensky)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	315 °C (599 °F)
· 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:	
Lower:	1.5 Vol %
Upper:	10.8 Vol %
· Vapor pressure at 20 °C (68 °F):	3.4 hPa (2.6 mm Hg)
· Density at 20 °C (68 °F):	>1.74-<1.75 g/cm ³ (>14.52-<14.6 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic at 20 °C (68 °F):	>3,000 mPas
Kinematic:	Not determined.
· Solvent separation test	
VOC content:	≥16.18-<16.52 % >287.5-<289.2 g/l / >2.4-<2.41 lb/gal
VOC (EC)	≥16.18-<16.52 %
· Other information	No further relevant information 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:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** Irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

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

Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

CAS: 13463-67-7	titanium dioxide	2B
CAS: 1333-86-4	Carbon black	2B
CAS: 7631-86-9	silicon dioxide, chemically prepared	3
CAS: 1330-20-7	xylene	3
CAS: 80-62-6	methyl methacrylate	3
CAS: 100-42-5	styrene	2A
CAS: 100-41-4	ethylbenzene	2B
CAS: 91-20-3	naphthalene	2B

· **NTP (National Toxicology Program)**

CAS: 100-42-5	styrene	R
CAS: 91-20-3	naphthalene	R

· **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.

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number	
· DOT, IATA	UN1210
· ADR, IMDG	Void
· UN proper shipping name	
· DOT	Printing ink
· ADR, IMDG	Void
· IATA	PRINTING INK
· Transport hazard class(es)	
· DOT	
	
· Class	3 Flammable liquids
· Label	3
· ADR	
· Class	Void
· ADN/R Class:	Kein Gefahrgut <450l gemäss ADR 2.2.3.1.5
· IATA	
	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, IATA	III
· ADR, IMDG	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	Void

15 Regulatory information

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

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· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

CAS: 80-62-6	methyl methacrylate
CAS: 100-42-5	styrene
CAS: 7664-38-2	phosphoric acid
CAS: 100-41-4	ethylbenzene
CAS: 1344-28-1	aluminium oxide
CAS: 108-31-6	maleic anhydride
CAS: 91-20-3	naphthalene

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

CAS: 80-62-6	methyl methacrylate
CAS: 100-42-5	styrene
CAS: 100-41-4	ethylbenzene
CAS: 108-31-6	maleic anhydride
CAS: 91-20-3	naphthalene

· **Proposition 65**

· **Chemicals known to cause cancer:**

CAS: 1333-86-4	Carbon black
CAS: 100-42-5	styrene

· **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:**

None of the ingredients is listed.

· **Carcinogeny categories**

· **EPA (Environmental Protection Agency)**

CAS: 1330-20-7	xylene	I
CAS: 80-62-6	methyl methacrylate	E, NL
CAS: 100-41-4	ethylbenzene	D
CAS: 91-20-3	naphthalene	C, CBD

· **TLV (Threshold Limit Value)**

CAS: 13463-67-7	titanium dioxide	A4
CAS: 1333-86-4	Carbon black	A4
CAS: 1330-20-7	xylene	A4
CAS: 80-62-6	methyl methacrylate	A4
CAS: 100-42-5	styrene	A4
CAS: 100-41-4	ethylbenzene	A3
CAS: 1344-28-1	aluminium oxide	A4
CAS: 108-31-6	maleic anhydride	A4
CAS: 91-20-3	naphthalene	A4

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· NIOSH-Ca (National Institute for Occupational Safety and Health)	
CAS: 13463-67-7	titanium dioxide
CAS: 1333-86-4	Carbon black

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02 GHS05 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

butyl glycollate
Carbon black
2-methoxy-1-methylethyl acetate
maleic anhydride
4-isocyanatosulphonyltoluene
methyl methacrylate

· **Hazard statements**

Flammable liquid and vapor.
Causes serious eye damage.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
Suspected of causing cancer. Route of exposure: Inhalation.
Suspected of damaging fertility or the unborn child.
May cause drowsiness or dizziness.

· **Precautionary statements**

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves / eye protection.
Use personal protective equipment as required.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center/doctor.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
If skin irritation or rash occurs: Get medical advice/attention.
If experiencing respiratory symptoms: Call a poison center/doctor.
Wash contaminated clothing before reuse.
In case of fire: Use CO₂, powder or water spray to extinguish.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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

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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Product safety department

· **Contact:** hse@printcolor.ch

· **Date of preparation / last revision** 05/30/2022 / 3

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

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)

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

Flammable Liquids 3: Flammable liquids – Category 3

Eye Damage 1: Serious eye damage/eye irritation – Category 1

Sensitization - Respiratory 1: Respiratory sensitisation – Category 1

Sensitization - Skin 1: Skin sensitisation – Category 1

Carcinogenicity 2: Carcinogenicity – Category 2

Toxic to Reproduction 2: Reproductive toxicity – Category 2

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3