

ACTDIGI®DUV-9058DG

Version 1.13 Revision Date 03/09/2023 Print Date 03/09/2023

SECTION 1. IDENTIFICATION

Product name : ACTDIGI® DUV-9058DG UV GLOSS COATING FOR

DIGITAL TONERS

Product Use Description : UV GLOSS COATING FOR DIGITAL TONERS

Manufacturer or supplier's details

Company : ACTEGA North America, Inc.

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SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitisation : Category 1

Carcinogenicity : Category 2

Reproductive toxicity : Category 2

GHS label elements

Hazard pictograms





Signal word : Warning

Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H351 Suspected of causing cancer. H361f Suspected of damaging fertility.

Precautionary statements : Prevention:

P201 Obtain special instructions before use.



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P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 16 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component	CAS-No.	Concentration (%)
2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3- propanediyl diacrylate	15625-89-5	>= 10 - < 30
hexamethylene diacrylate	13048-33-4	>= 10 -< 30
Oligomer Acrylate		>= 10 -< 30
benzophenone	119-61-9	>= 5 -< 10
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	>= 1 - < 5
2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3- propanediyl diacrylate	15625-89-5	>= 1 - < 5
2-hydroxy-2-methylpropiophenone	7473-98-5	>= 1 -< 5
octamethylcyclotetrasiloxane	556-67-2	>= 0.1 -< 1



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SECTION 4. FIRST AID MEASURES

General advice : Get medical attention immediately if symptoms occur.

Treat symptomatically. Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If inhaled, remove to fresh air.

If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

If unconscious, place in recovery position and seek medical advice.

If symptoms persist, call a physician.

In case of skin contact : Remove contaminated clothing. Wash thoroughly with soap and

water for at least 20 min. or until material is removed.

Wash contaminated clothing before re-use.

Get medical attention if irritation develops and persists.

If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : If easy to do, remove contact lens, if worn.

Rinse immediately with plenty of water, also under the eyelids, for

at least 15 minutes. Seek medical advice.

Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Do NOT induce vomiting.

Gently wipe or rinse the inside of the mouth with water.

Obtain medical attention.

Induce vomiting immediately and call a physician.

Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : ABC powder

Carbon dioxide (CO2)

Unsuitable extinguishing media : Water

High volume water jet

Specific hazards during

firefighting

: Do not use a solid water stream as it may scatter and spread fire.

Do not allow run-off from fire fighting to enter drains or water



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courses.

Further information : Use water spray to cool unopened containers.

Collect contaminated fire extinguishing water separately. This must

not be discharged into drains.

Fire residues and contaminated fire extinguishing water must be

disposed of in accordance with local regulations.

Special protective equipment for :

firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

Wear self-contained breathing apparatus for firefighting if

necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency

procedures

: Ensure adequate ventilation.

Use personal protective equipment.

: Use personal protective equipment.

Environmental precautions : Prevent spilled material from entering the ground, water and/or air

by using appropriate containment methods.

Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for

containment and cleaning up

: Soak up with inert absorbent material.

Soak up with inert absorbent material (e.g. sand, silica gel, acid

binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Use only in accordance with our recommendations.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application

area.

Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be



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employed in any process in which this mixture is being used.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.

Keep container tightly closed in a dry and well-ventilated place.

Observe label precautions.

Electrical installations / working materials must comply with the

technological safety standards.

Materials to avoid : Keep away from oxidizing agents and strongly acid or alkaline

materials.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis	
Hazardous components without workplace control parameters					
2-ethyl-2-[[(1-	15625-89-5	TWA	1 mg/m3	US WEEL	
oxoallyl)oxy]methyl]-1,3-					
propanediyl diacrylate					
hexamethylene diacrylate	13048-33-4	TWA	1 mg/m3	US WEEL	
benzophenone	119-61-9	TWA	0.5 mg/m3	US WEEL	
2-ethyl-2-[[(1-	15625-89-5	TWA	1 mg/m3	US WEEL	
oxoallyl)oxy]methyl]-1,3-					
propanediyl diacrylate					
octamethylcyclotetrasiloxane	556-67-2	TWA	10 ppm	US WEEL	

Engineering measures : Handle only in a place equipped with local exhaust (or other

appropriate exhaust).

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an

approved filter.

Hand protection

Material : Impervious gloves

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Safety glasses with side-shields

Safety goggles

Eye wash bottle with pure water Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Long sleeved clothing

Chemical resistant apron Lightweight protective clothing

Impervious clothing



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Choose body protection according to the amount and concentration

of the dangerous substance at the work place.

Protective measures : Ensure that eye flushing systems and safety showers are located

close to the working place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

Wash hands before eating, drinking, or smoking.

When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
Colour : off-white
Odour : acrylic-like
Odour Threshold : No data available

pH : Not applicable

: No data available

Initial boiling point : $> 200.1 \, ^{\circ}\text{F} \, (> 93.4 \, ^{\circ}\text{C})$

Vapour pressure : No data available

Flash point : $> 200.1 \, ^{\circ}\text{F} \, (> 93.4 \, ^{\circ}\text{C})$

Upper explosion limit : No data available

Lower explosion limit : No data available

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Relative vapour density : No data available

Relative Density/Specific

Gravity

: 1.090 (68 °F (20 °C))

Density : 9.10 lb/gal

Bulk density : No data available

Solubility(ies)

Water solubility : No data available



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Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

.

No data available

Ignition temperature : No data available

Auto-ignition temperature No data available

Thermal decomposition : Carbon monoxide, carbon dioxide and unburned

hydrocarbons (smoke).

Viscosity

Viscosity, kinematic : > 21 mm2/s (104 °F (40 °C))

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed. Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous :

reactions

: Acids and bases

Strong oxidizing agents

Fluorine

No decomposition if stored and applied as directed.

Conditions to avoid : Avoid temperatures above 60°C, direct sunlight and contact with

sources of heat. No data available

Hazardous decomposition

products

: Stable under recommended storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eves

Skin contact Inhalation

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method



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Components:

15625-89-5 2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

13048-33-4 hexamethylene diacrylate:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

119-61-9 benzophenone:

Acute oral toxicity : LD50 (Rat): > 10,000 mg/kg

LD50 (Mouse): 2,895 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 3,535 mg/kg

15625-89-5 2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation

Product:

Remarks: No data available

Remarks: May cause skin irritation and/or dermatitis.

Components:

15625-89-5 2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate:

Species: Rabbit Result: Skin irritation

13048-33-4 hexamethylene diacrylate:

Species: Rabbit

Result: Severe skin irritation

15625-89-5 2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate:

Species: Rabbit Result: Skin irritation

556-67-2 octamethylcyclotetrasiloxane:

Species: Rabbit Result: slight irritation



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Serious eye damage/eye irritation

Product:

Remarks: No data available

Remarks: May cause irreversible eye damage.

Components:

15625-89-5 2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate:

Species: Rabbit Result: Eye irritation Method: Draize Test

13048-33-4 hexamethylene diacrylate:

Species: Rabbit

Result: Severe eye irritation

15625-89-5 2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate:

Species: Rabbit Result: Eye irritation Method: Draize Test

556-67-2 octamethylcyclotetrasiloxane:

Species: Rabbit

Result: Mild eye irritation

Respiratory or skin sensitisation

Product:

Remarks: No data available

Remarks: Causes sensitisation.

Components:

15625-89-5 2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate:

Test Type: Maximisation Test Exposure routes: Dermal Species: Guinea pig

Result: May cause sensitisation by skin contact.

13048-33-4 hexamethylene diacrylate:

Test Type: Maximisation Test Exposure routes: Dermal Species: Guinea pig

Method: OECD Test Guideline 406 Result: Causes sensitisation.

15625-89-5 2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate:



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Test Type: Maximisation Test Exposure routes: Dermal Species: Guinea pig

Result: May cause sensitisation by skin contact.

556-67-2 octamethylcyclotetrasiloxane:

Species: Guinea pig

Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

GLP: yes

Germ cell mutagenicity

Components:

15625-89-5 2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate:

Germ cell mutagenicity
: In vitro tests showed mutagenic effects, In vivo tests showed

Assessment mutagenic effects

Carcinogenicity

IARC Group 2B: Possibly carcinogenic to humans

2-ethyl-2-[[(1- 15625-89-5

oxoallyl)oxy]methyl]-1,3propanediyl diacrylate

benzophenone 119-61-9

2-ethyl-2-[[(1- 15625-89-5

oxoallyl)oxy]methyl]-1,3propanediyl diacrylate

OSHANo component of this product present at levels greater than or equal to

0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to

0.1% is identified as a known or anticipated carcinogen by NTP.

Repeated dose toxicity

Product:

Remarks: No data available

Further information

Product:

Remarks: No data available



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Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish

Remarks: No data available

Toxicity to daphnia and other

aquatic invertebrates Remarks: No data available

Components:

15625-89-5 2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate:

M-Factor (Acute aquatic : 1

toxicity)

M-Factor (Chronic aquatic : 1

toxicity)

13048-33-4 hexamethylene diacrylate: M-Factor (Acute aquatic : 1

toxicity)

119-61-9 benzophenone:

Toxicity to fish : NOEC (Pimephales promelas (fathead minnow)): 5.86 mg/l

Exposure time: 168 h

LC50 (Pimephales promelas (fathead minnow)): 14.2 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

: EC50 (Daphnia magna (Water flea)): 0.28 mg/l

aquatic invertebrates Exposure time: 24 h

15625-89-5 2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate:

M-Factor (Acute aquatic : 1

toxicity)

M-Factor (Chronic aquatic : 1

toxicity)

7473-98-5 2-hydroxy-2-methylpropiophenone:

M-Factor (Acute aquatic : 1

toxicity)

M-Factor (Chronic aquatic : 1

toxicity)

Persistence and degradability

Product:

Biodegradability : Remarks: No data available



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Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Mobility in soil
No data available
Other adverse effects
No data available

Product:

Regulation 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a Class I

or Class II ODS as defined by the U.S. Clean Air Act Section 602

(40 CFR 82, Subpt. A, App.A + B).

Additional ecological

information

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

EPA Hazardous Waste Code(s) : none

Waste from residues : Dispose of in accordance with applicable local/municipal,

state/provincial and federal regulations.

The hazard and precautionary statements displayed on the label also

apply to any residues left in the container. Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with chemical or

used container.

Send to a licensed waste management company.

Contaminated packaging : Do not re-use empty containers.

Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.



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(Trimethylolpropane triacrylate, 2-hydroxy-2-

methylpropiophenone)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

Packing instruction : 964

(passenger aircraft)

IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

: 964

(TRIMETHYLOLPROPANE TRIACRYLATE, 2-hydroxy-2-

methylpropiophenone)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

49 CFR

UN/ID/NA number : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(Trimethylolpropane triacrylate, 2-hydroxy-2-

methylpropiophenone)

Class : 9
Packing group : III
Labels : CLASS 9
ERG Code : 171

Marine pollutant : yes(Trimethylolpropane triacrylate2-hydroxy-2-

methylpropiophenone)

Remarks : Shipment by ground under DOT is non-regulated; however it

may be shipped per the applicable hazard classification to

facilitate multi-modal transport involving ICAO (IATA) or IMO.

49CFR: no dangerous good in non-bulk packaging

SECTION 15. REGULATORY INFORMATION

WHMIS Classification : D2B: Toxic Material Causing Other Toxic Effects



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EPCRA - Emergency Planning and Community Right-to-Know Act

US. EPA CERCLA Hazardous Substances (40 CFR 302)

This material does not contain any components with a CERCLA RQ.

SARA 304 - Emergency Release Notification

This material does not contain any components with a section 304 EHS RQ.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

This material does not contain any components with a SARA 302 RQ.

SARA 311/312 Hazards : Acute Health Hazard

Chronic Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-	15625-89-5
propanediyl diacrylate	
hexamethylene diacrylate	13048-33-4
2-Propenoic acid, 1,6-hexanediyl ester,	67906-98-3
polymer with 2-aminoethanol	

Oligomer Acrylate

Not Assigned
benzophenone

119-61-9

4,4'-Isopropylidenediphenol, oligomeric

55818-57-0

reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3- 15625-89-5

propanediyl diacrylate

New Jersey Right To Know



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> 2-ethyl-2-[[(1-oxoallyl)oxylmethyl]-1.3-15625-89-5

propanediyl diacrylate

hexamethylene diacrylate 13048-33-4 2-Propenoic acid, 1,6-hexanediyl ester, 67906-98-3

polymer with 2-aminoethanol

Oligomer Acrylate Not Assigned benzophenone 119-61-9

New Jersey Trade Secret Registry Number for the product (NJ TSRN)

California Prop. 65

WARNING: This product can expose you to chemicals including benzophenone, 2-ethyl-2-[[(1oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate, 2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

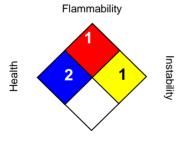
The components of this product are reported in the following inventories:

LISTED : Listed

SECTION 16. OTHER INFORMATION

Further information

NFPA:



Special hazard

HMIS III:

HEALTH	2*
FLAMMABILITY	1
PHYSICAL HAZARD	1

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, * = Chronic

: 03/09/2023 **Revision Date**

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damage direct, incidental or consequential, arising out of the use or inability to use this product. The seller and / or manufacturer's only obligations shall be to replace the product if it is defective, and shall not be liable for more than the cost of the product. Before using, the user shall determine the suitability of the product for its intended use, and assumes all risk and liability whatsoever in connections with the use of said product. The foregoing warranties are in lieu of all other warranties, written, oral, expressed, or implied. No other warranty is made concerning the suitability of this product. The foregoing warranties may not be altered except by an agreement signed by the officers of the seller and / or manufacturer.