AkzoNobel Specialty Coatings AkzoNobel Aerospace Coatings



SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : Eclipse High Solids Polyurethane Enamel ECL-SG-7679

MSDS code : 006980 Product code : ECL-SG-7679

1.2 Relevant identified uses of the substance or mixture and uses advised against

Aerospace coating

Uses advised against

For professional use only.

1.3 Details of the supplier of the safety data sheet

AkzoNobel Aerospace Coatings

Rijksstraatweg 31 2171 AJ Sassenheim

P.O. Box 3

2170 BA Sassenheim The Netherlands

e-mail address of person responsible for this SDS

: PSRA SSH@akzonobel.com

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number : Not available.

Supplier

Telephone number : + 31 (0)71 308 6944

Hours of operation : 24 hours

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 2, H225 Eye Irrit. 2, H319 Aguatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Ingredients of unknown : 14.1 percent of the mixture consists of component(s) of unknown toxicity

toxicity

Ingredients of unknown : Contains 14.1 % of components with unknown hazards to the aquatic environment

ecotoxicity

Date of issue/Date of revision : 1/10/2018. Date of previous issue : 5/9/2014. Version : 4 1/16



SECTION 2: Hazards identification

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms





Signal word : Danger

Hazard statements : Highly flammable liquid and vapor.

Causes serious eye irritation.

Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Supplemental label

elements

: Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,

6-pentamethyl-4-piperidyl sebacate, Polyethylene glycol di[3-[3-(2H-benzotriazol-2-yl) -5-tert-butyl-4-hydroxyphenyl]-1-oxopropyl] ether, Polyethyleneglycol mono-(3-(3-(2H-benzotriazol-2-yl))-5-tert-butyl-4-hydroxyphenyl)propionate) and dipentene. May

produce an allergic reaction.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant

fastenings

: Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification

: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP]	Туре

Date of issue/Date of revision : 1/10/2018. Date of previous issue : 5/9/2014. Version : 4 2/16



heptan-2-one	REACH #:	≥25 - ≤35	Flam. Liq. 3, H226	[1] [2]
	01-2119902391-49		Acute Tox. 4, H302	
	EC: 203-767-1		Acute Tox. 4, H332	
	CAS: 110-43-0		7.00.0 10%. 1,11002	
outanone	REACH #:	≥10 - ≤15	Flam. Liq. 2, H225	[1] [2]
dianone	01-2119457290-43	-10 -10	Eye Irrit. 2, H319	
	EC: 201-159-0		STOT SE 3, H336	
	CAS: 78-93-3		EUH066	
	Index: 606-002-00-3		E011000	
hutul acetate	REACH #:	≤2	Flam. Lig. 3, H226	[1]
n-butyl acetate		22		11.1
	01-2119485493-29		STOT SE 3, H336	
	EC: 204-658-1		EUH066	
	CAS: 123-86-4			
	Index: 607-025-00-1			
pentane-2,4-dione	REACH #:	≤2	Flam. Liq. 3, H226	[1]
	01-2119458968-15		Acute Tox. 4, H302	
	EC: 204-634-0		Acute Tox. 3, H311	
	CAS: 123-54-6		Acute Tox. 3, H331	
	Index: 606-029-00-0			
ois(1,2,2,6,6-pentamethyl-	EC: 255-437-1	<1	Skin Sens. 1, H317	[1]
1-piperidyl) sebacate	CAS: 41556-26-7		Aquatic Acute 1, H400 (M=1)	
			Aquatic Chronic 1, H410	
			(M=1)	
dipentene	EC: 205-341-0	≤0.85	Flam. Liq. 3, H226	[1]
	CAS: 138-86-3	-5.55	Skin Irrit. 2, H315	-
	Index: 601-029-00-7		Skin Sens. 1, H317	
			Aquatic Acute 1, H400 (M=1)	
			Aquatic Chronic 1, H410	
			(M=1)	
outyl glycollate	EC: 230-991-7	<1	Eye Dam. 1, H318	[1]
outyl glycollate	CAS: 7397-62-8	`'	Repr. 2, H361fd (Fertility and	1.,1
	CAS. 1391-02-0			
the d 4 0 0 0	FO: 000 000 4	40.0	Unborn child) (oral)	[4]
methyl 1,2,2,6,	EC: 280-060-4	≤0.3	Skin Sens. 1, H317	[1]
6-pentamethyl-4-piperidyl	CAS: 82919-37-7		Aquatic Acute 1, H400 (M=1)	
sebacate			Aquatic Chronic 1, H410	
			(M=1)	
Polyethyleneglycol mono-(3-	CAS: 104810-48-2	≤0.3	Skin Sens. 1, H317	[1]
3-(2H-benzotriazol-2-yl)			Aquatic Chronic 2, H411	
-5-tert-butyl-4-hydroxyphenyl)				
oropionate)				
Polyethylene glycol di[3-[3-	CAS: 104810-47-1	≤0.3	Skin Sens. 1, H317	[1]
(2H-benzotriazol-2-yl)-5-tert-			Aquatic Chronic 2, H411	
outyl-4-hydroxyphenyl]				
-1-oxopropyl] ether				
			See Section 16 for the full	
			text of the H statements	
			declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

Date of issue/Date of revision : 1/10/2018. Date of previous issue : 5/9/2014. Version : 4 3/16



SECTION 4: First aid measures

4.1 Description of first aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give

anything by mouth to an unconscious person. If unconscious, place in recovery

position and seek medical advice.

Eye contact: Remove contact lenses, irrigate copiously with clean, fresh water, holding the

eyelids apart for at least 10 minutes and seek immediate medical advice.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel.

Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognized skin cleanser. Do NOT use solvents or thinners.

Ingestion: If swallowed, seek medical advice immediately and show this container or label.

Keep person warm and at rest. Do NOT induce vomiting.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It

may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, dipentene, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, Polyethyleneglycol mono-(3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionate), Polyethylene glycol di[3-[3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl]-1-oxopropyl] ether. May produce an allergic reaction.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: Recommended: alcohol-resistant foam, CO₂, powders, water spray.

Unsuitable extinguishing

media

: Do not use water jet.

Date of issue/Date of revision : 1/10/2018. Date of previous issue : 5/9/2014. Version : 4 4/16



SECTION 5: Firefighting measures

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters : Appropriate breathing apparatus may be required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and materials for containment and cleaning up

: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

: Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.

Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel.

: 1/10/2018. : 5/9/2014. Date of issue/Date of revision Date of previous issue Version : 4 5/16



SECTION 7: Handling and storage

Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

Information on fire and explosion protection

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapors in all cases. In such circumstances, they should wear a compressed-air-fed respirator during the spraying process and until the particulate and solvent vapor concentrations have fallen below the exposure limits.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidizing agents, strong alkalis, strong acids.

Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
heptan-2-one	EU OEL (Europe, 12/2009). Absorbed through skin.
	STEL: 475 mg/m³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 238 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
butanone	EU OEL (Europe, 12/2009).
	STEL: 900 mg/m³ 15 minutes.
	STEL: 300 ppm 15 minutes.
	TWA: 600 mg/m³ 8 hours.
	TWA: 200 ppm 8 hours.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482

Date of issue/Date of revision : 1/10/2018. Date of previous issue : 5/9/2014. Version : 4 6/16



SECTION 8: Exposure controls/personal protection

(Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls

: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Use safety evewear designed to protect against splash of liquids.

Skin protection

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Gloves

: For prolonged or repeated handling, use the following type of gloves:

May be used: nitrile rubber, neoprene, butyl rubber

The recommendation for the type or types of glove to use when handling this product is based on information from the following source:

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Body protection

: Personnel should wear antistatic clothing made of natural fibers or of high-temperature-resistant synthetic fibers.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Date of issue/Date of revision : 1/10/2018. Date of previous issue : 5/9/2014. Version : 4 7/16



SECTION 8: Exposure controls/personal protection

Respiratory protection

: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flatting should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

If workers could be exposed to concentrations above the exposure limit they must use a respirator to EN 140, fitted with a filter suitable for both particulates and vapours, to EN 14387, with an assigned protection factor of at least 10 (e.g. A2P3). Selection of any respiratory protective equipment should ensure that it is adequate to reduce exposure to protect the worker's health and is suitable for the wearer, task and environment, including consideration of the facial features of the wearer.

Environmental exposure

: Do not allow to enter drains or watercourses.

controls

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

Color : Product Specific Information

Odor : Characteristic.
Odor threshold : Not available.

pH : Acidic.

Melting point/freezing point : Not available.

Initial boiling point and

boiling range

: 80°C

Flash point : Closed cup: -3.9°C
Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Upper/lower flammability or

explosive limits

: Greatest known range: Lower: 1.8% Upper: 11.5% (butanone)

Vapor pressure : Not available.

Vapor density : Highest known value: 4 (Air = 1) (n-butyl acetate). Weighted average: 3.44

(Air = 1)

Relative density : 1.186

Solubility(ies) : Not available.

Partition coefficient: n-octanol/ : Not available.

water

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Kinematic (room temperature): 1.51824 cm²/s

Explosive properties : Not available.

Oxidizing properties : Not available.

VOC content : 548.4 g/l [ISO 11890-2]

9.2 Other information

No additional information.

Date of issue/Date of revision : 1/10/2018. Date of previous issue : 5/9/2014. Version : 4 8/16



SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition

products.

10.5 Incompatible materials: Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, dipentene, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, Polyethyleneglycol mono-(3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionate), Polyethylene glycol di[3-[3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl]-1-oxopropyl] ether. May produce an allergic reaction.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
heptan-2-one	LD50 Oral	Rat	1600 mg/kg	-
butanone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
n-butyl acetate	LC50 Inhalation Vapor	Rat	390 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
dipentene	LD50 Oral	Rat	5300 mg/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Date of issue/Date of revision : 1/10/2018. Date of previous issue : 5/9/2014. Version : 4 9/16



SECTION 11: Toxicological information

Route	ATE value
Dermal	4217.8 mg/kg 14634.5 mg/kg 28.28 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
heptan-2-one	Skin - Mild irritant	Rabbit	-	24 hours 14 milligrams	-
butanone	Skin - Mild irritant	Rabbit	-	24 hours 14 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
n-butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
pentane-2,4-dione	Eyes - Severe irritant	Rabbit	_	20 milligrams	_
	Skin - Mild irritant	Rabbit	-	488 milligrams	-
	Skin - Mild irritant	Rabbit	-	6 hours 11.2 Mililiters Intermittent	-
	Skin - Moderate irritant	Rabbit	-	48 hours 11. 2 Mililiters	-
	Skin - Moderate irritant	Rabbit	-	Intermittent 6 hours 33.6 Mililiters	-
dipentene	Skin - Moderate irritant	Rabbit	-	Intermittent 24 hours 500 milligrams	-

Conclusion/Summary

: Not available.

Sensitization

Conclusion/Summary

: Not available.

Mutagenicity

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary: Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary: Not available.

<u>Specific target organ toxicity (single exposure)</u>

Product/ingredient name	Category	Route of exposure	Target organs
butanone		Not applicable.	Narcotic effects
n-butyl acetate		Not applicable.	Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Date of issue/Date of revision : 1/10/2018. Date of previous issue : 5/9/2014. Version : 4 10/16



SECTION 11: Toxicological information

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
heptan-2-one	Acute LC50 131000 to 137000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
butanone	Acute EC50 >500000 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 5091000 to 6440000 μg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours
	Acute LC50 5600 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
n-butyl acetate	Acute LC50 62000 μg/l	Fish - Danio rerio	96 hours
pentane-2,4-dione	Acute EC50 75000 to 78000 µg/l Fresh water	Crustaceans - Ceriodaphnia reticulata - Larvae	48 hours
	Acute LC50 35400 ul/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 60100 to 71800 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
dipentene	Acute EC50 28.2 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 20.2 mg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Acute IC50 13.798 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
heptan-2-one	2.26	-	low
butanone	0.3	-	low
n-butyl acetate	2.3	-	low
pentane-2,4-dione	0.68	-	low
dipentene	4.57	-	high
butyl glycollate	0.38	-	low

12.4 Mobility in soil

Soil/water partition : Not available.

coefficient (Koc)

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

Date of issue/Date of revision : 1/10/2018. Date of previous issue : 5/9/2014. Version : 4 11/16



SECTION 12: Ecological information

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimized wherever possible.

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of

all authorities with jurisdiction.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as

hazardous waste, as defined by EU Directive 2008/98/EC.

Disposal considerations: Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no

longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

Packaging

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Waste

packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Which recycling to her reachers.

Disposal considerations : Using information provided in this safety data sheet, advice should be obtained from

the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned.

Dispose of containers contaminated by the product in accordance with local or

national legal provisions.

Type of packaging		European waste catalogue (EWC)
CEPE Guidelines	15 01 10*	packaging containing residues of or contaminated by hazardous substances

Special precautions

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Date of issue/Date of revision : 1/10/2018. Date of previous issue : 5/9/2014. Version : 4 12/16



SECTION 14: Transport information

	ADR/RID	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	II	II	II
Environmental hazards	No.	No.	No.
Additional information	Special provisions 640 (C) Tunnel code (D/E)	F-E, _S-E_ -	-

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code : Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles

Other EU regulations

VOC : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

VOC for Ready-for-Use

: Not applicable.

Mixture

Date of issue/Date of revision : 1/10/2018. : 5/9/2014. Version : 4 13/16 Date of previous issue



SECTION 15: Regulatory information

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
butyl glycollate	-	-	Repr. 2, H361d (Unborn child) (oral)	Repr. 2, H361f (Fertility) (oral)

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

Industrial use : The information contained in this safety data sheet does not constitute the user's

own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply

to the use of this product at work.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical Safety : No Chemical Safety Assessment has been carried out.

Assessment

SECTION 16: Other information

CEPE code : 1

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008] DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Date of issue/Date of revision : 1/10/2018. Date of previous issue : 5/9/2014. Version : 4 14/16



SECTION 16: Other information

Classification	Justification	
Eye Irrit. 2, H319	On basis of test data Calculation method Calculation method	

Full text of abbreviated H statements

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H361fd (Fertility and Unborn child) (oral)	Suspected of damaging fertility if swallowed. Suspected of
	damaging the unborn child if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Notice to reader

FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to

Date of issue/Date of revision : 1/10/2018. Date of previous issue : 5/9/2014. Version : 4 15/16

Eclipse High Solids Polyurethane Enamel ECL-SG-7679



SECTION 16: Other information

modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

Brand names mentioned in this data sheet are trademarks of or are licensed to Akzo Nobel.

Head Office

AkzoNobel Aerospace Coatings, Rijksstraatweg 31 2171 AJ Sassenheim. http://www.akzonobel.com/aerospace

Date of issue/Date of revision : 1/10/2018. Date of previous issue : 5/9/2014. Version : 4 16/16