

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## KCS-LG-KCS Lime Green

Version 1 Date of compilation: 11/03/2018

Version 5 (replaces version 4)

Revision date: 18/12/2020

Page 1 of 23

Print date: 02/03/2021

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING.

#### 1.1 Product identifier.

Product Name: KCS Lime Green  
Product Code: KCS-LG

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

Solvent-based colors for airbrush painting

#### Uses advised against:

Uses other than those recommended.

#### 1.3 Details of the supplier of the safety data sheet.

Company: **CUSTOM CREATIVE SL**  
Address: C/ SEVILLA 43  
City: JEREZ DE LA FRONTERA  
Province: CADIZ  
Telephone: (+34) 956045939  
E-mail: info@customcreative.es  
Web: customcreative.es

**1.4 Emergency telephone number:** (+34) 956045939 (Only available during office hours; Monday-Friday; 08:00-18:00)

### SECTION 2: HAZARDS IDENTIFICATION.

#### 2.1 Classification of the substance or mixture.

In accordance with Regulation (EU) No 1272/2008:

Aquatic Chronic 2 : Toxic to aquatic life with long lasting effects.  
Eye Irrit. 2 : Causes serious eye irritation.  
Flam. Liq. 3 : Flammable liquid and vapour.  
STOT SE 3 : May cause drowsiness or dizziness.  
Skin Irrit. 2 : Causes skin irritation.

#### 2.2 Label elements.

##### Labelling in accordance with Regulation (EU) No 1272/2008:

Pictograms:



Signal Word:

**Warning**

H statements:

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

P statements:

P101	If medical advice is needed, have product container or label at hand.
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-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## KCS-LG-KCS Lime Green

Version 1 Date of compilation: 11/03/2018

Version 5 (replaces version 4)

Revision date: 18/12/2020

Page 2 of 23

Print date: 02/03/2021

P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271	Use only outdoors or in a well-ventilated area.
P405	Store locked up.
P501	Dispose of contents/container to ...

Contains:

propan-2-ol, isopropyl alcohol, isopropanol  
4-methylpentan-2-one, isobutyl methyl ketone  
n-butyl acetate

### 2.3 Other hazards.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

### 3.1 Substances.

Not Applicable.

### 3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

Identifiers	Name	Concentrate	(*)Classification - Regulation (EC) No 1272/2008	
			Classification	specific concentration limit
Index No: 607-025-00-1 CAS No: 123-86-4 EC No: 204-658-1 Registration No: 01-2119485493-29-XXXX	[1] n-butyl acetate	20 - 25 %	Flam. Liq. 3, H226 - STOT SE 3, H336	-
Index No: 606-024-00-3 CAS No: 110-43-0 EC No: 203-767-1 Registration No: 01-2119902391-49-XXXX	[1] heptan-2-one, methyl amyl ketone	1 - 25 %	Acute Tox. 4 *, H332 - Acute Tox. 4 *, H302 - Flam. Liq. 3, H226	-
Index No: 601-022-00-9 CAS No: 1330-20-7 EC No: 215-535-7 Registration No: 01-2119488216-32-XXXX	[1] xylene	10 - 25 %	Acute Tox. 4 *, H312 - Acute Tox. 4 *, H332 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315	-
Index No: 603-117-00-0 CAS No: 67-63-0 EC No: 200-661-7 Registration No: 01-2119457558-25-XXXX	[1] propan-2-ol, isopropyl alcohol, isopropanol	10 - 20 %	Eye Irrit. 2, H319 - Flam. Liq. 2, H225 - STOT SE 3, H336	-
CAS No: 85029-58-9 EC No: 285-083-3	Amines, C10-14-branched and linear alkyl, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-)	2.5 - 25 %	Aquatic Acute 1, H400 - Aquatic Chronic 1, H410	-

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## KCS-LG-KCS Lime Green

Version 1 Date of compilation: 11/03/2018

Version 5 (replaces version 4)

Revision date: 18/12/2020

Page 3 of 23

Print date: 02/03/2021

Index No: 607-195-00-7 CAS No: 108-65-6 EC No: 203-603-9 Registration No: 01-2119475791-29-XXXX	[1] 2-methoxy-1-methylethyl acetate	2.5 - 10 %	Flam. Liq. 3, H226	-
Index No: 606-004-00-4 CAS No: 108-10-1 EC No: 203-550-1 Registration No: 01-2119473980-30-XXXX	[1] 4-methylpentan-2-one, isobutyl methyl ketone	1 - 10 %	Acute Tox. 4 *, H332 - Eye Irrit. 2, H319 - Flam. Liq. 2, H225 - STOT SE 3, H335	-
Index No: 603-004-00-6 CAS No: 71-36-3 EC No: 200-751-6 Registration No: 01-2119484630-38-XXXX	[1] butan-1-ol	0 - 1 %	Acute Tox. 4 *, H302 - Eye Dam. 1, H318 - Flam. Liq. 3, H226 - STOT SE 3, H335 - STOT SE 3, H336 - Skin Irrit. 2, H315	-
Index No: 601-023-00-4 CAS No: 100-41-4 EC No: 202-849-4 Registration No: 01-2119489370-35-XXXX	[1] ethylbenzene	0 - 10 %	Acute Tox. 4 *, H332 - Asp. Tox. 1, H304 - Flam. Liq. 2, H225 - STOT RE 2, H373(órganos de audición)	-
Index No: 607-038-00-2 CAS No: 112-07-2 EC No: 203-933-3 Registration No: 01-2119475112-47-XXXX	[1] 2-butoxyethyl acetate, butylglycol acetate	0 - 2.5 %	Acute Tox. 4 *, H312 - Acute Tox. 4 *, H332	-
Index No: 607-035-00-6 CAS No: 80-62-6 EC No: 201-297-1 Registration No: 01-2119452498-28-XXXX	[1] methyl methacrylate, methyl 2-methylprop-2-enoate, methyl 2-methylpropenoate	0 - 1 %	Flam. Liq. 2, H225 - STOT SE 3, H335 - Skin Irrit. 2, H315 - Skin Sens. 1, H317	-
Index No: 601-021-00-3 CAS No: 108-88-3 EC No: 203-625-9 Registration No: 01-2119471310-51-XXXX	[1] toluene	0 - 3 %	Asp. Tox. 1, H304 - Flam. Liq. 2, H225 - Repr. 2, H361d *** - STOT RE 2 *, H373 ** - STOT SE 3, H336 - Skin Irrit. 2, H315	-
Index No: 603-108-00-1 CAS No: 78-83-1 EC No: 201-148-0 Registration No: 01-2119484609-23-XXXX	[1] 2-methylpropan-1-ol, iso-butanol	0 - 1 %	Eye Dam. 1, H318 - Flam. Liq. 3, H226 - STOT SE 3, H335 - STOT SE 3, H336 - Skin Irrit. 2, H315	-

(\* ) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

\* \*\* \*\*\* See Regulation (EC) No. 1272/2008, Annex VI, section 1.2.

[1] Substance with a Community workplace exposure limit (see section 8.1).

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## KCS-LG-KCS Lime Green

Version 1 Date of compilation: 11/03/2018

Version 5 (replaces version 4)

Revision date: 18/12/2020

Page 4 of 23

Print date: 02/03/2021

### SECTION 4: FIRST AID MEASURES.

IRRITANT MIXTURE. Its repeated or prolonged contact with the skin or mucous membranes can cause irritant symptoms such as reddening of the skin, blisters, or dermatitis. Some of the symptoms may not be immediate. They can cause allergic reactions on the skin.

#### 4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

#### Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.

#### Eye contact.

Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance. Don't let the person to rub the affected eye.

#### Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

#### Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

#### 4.2 Most important symptoms and effects, both acute and delayed.

Irritant Product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis, inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract, some symptoms may not be immediate.

#### 4.3 Indication of any immediate medical attention and special treatment needed.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Cover the affected area with a dry sterile bandage. Protect the affected area from pressure or friction.

### SECTION 5: FIREFIGHTING MEASURES.

Flammable product, the necessary prevention measures should be taken in order to avoid risks, In case of fire, the following measures are recommended:

#### 5.1 Extinguishing media.

##### Suitable extinguishing media:

Extinguisher powder or CO2. In case of more serious fires, also alcohol-resistant foam and water spray.

##### Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

#### 5.2 Special hazards arising from the substance or mixture.

##### Special risks.

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

During a fire and depending on its magnitude the following may occur:

- Flammable vapors or gases.

#### 5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways. Product residues and extinguishing media may contaminate the aquatic environment. Follow the instructions given in the emergency or fire evacuation plan or plans if available.

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## KCS-LG-KCS Lime Green

Version 1 Date of compilation: 11/03/2018

Version 5 (replaces version 4)

Revision date: 18/12/2020

Page 5 of 23

Print date: 02/03/2021

### **Fire protection equipment.**

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots. During extinction and depending on the magnitude and proximity to the fire, additional protective equipment such as chemical protection gloves, heat-reflecting suits or gas-tight suits may be required.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES.**

### **6.1 Personal precautions, protective equipment and emergency procedures.**

Eliminate possible ignition points and ventilate the area. No smoking. Avoid breathing fumes. For exposure control and individual protection measures, see section 8.

### **6.2 Environmental precautions.**

Product dangerous for the environment, in case of large spills or if the product contaminates lakes, rivers, or sewers, inform the responsible authorities according to local legislation. Prevent the contamination of drains, surface or subterranean waters, and the ground.

### **6.3 Methods and material for containment and cleaning up.**

Contain and collect spillage with inert absorbent material (earth, sand, vermiculite, Kieselguhr...) and clean the area immediately with a suitable decontaminant.

Deposit waste in closed and suitable containers for disposal, in compliance with local and national regulations

### **6.4 Reference to other sections.**

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

## **SECTION 7: HANDLING AND STORAGE.**

### **7.1 Precautions for safe handling.**

The fumes are heavier than air and can spread across the ground. They can form explosive mixtures with air. Prevent the creation of flammable or explosive fume concentrations in the air; prevent fume concentrations above work exposure limits. The product must only be used in areas where all unprotected flames and other ignition points have been eliminated. Electrical equipment has to be protected according to applicable standards.

The product can be electrostatically charged: always use earth grounds when transferring the product. Operators must use anti-static footwear and clothing, and floors must be conductors.

Keep the container tightly closed and isolated from heat sources, sparks, and fire. Do not use tools that can cause sparks. For personal protection, see section 8.

In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

### **7.2 Conditions for safe storage, including any incompatibilities.**

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 25° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorized persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

The product is not affected by Directive 2012/18/EU (SEVESO III).

### **7.3 Specific end use(s).**

Not available.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.**

### **8.1 Control parameters.**

Work exposure limit for:

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## KCS-LG-KCS Lime Green

Version 1 Date of compilation: 11/03/2018  
Version 5 (replaces version 4)

Revision date: 18/12/2020

Page 6 of 23  
Print date: 02/03/2021

Name	CAS No.	Country	Limit value	ppm	mg/m <sup>3</sup>
n-butyl acetate	123-86-4	United Kingdom [1]	<b>Eight hours</b>	150	724
			<b>Short term</b>	200	966
		Éire [2]	<b>Eight hours</b>	150	710
			<b>Short term</b>	200	950
		United States [3] (Cal/OSHA)	<b>Eight hours</b>	150	
			<b>Short term</b>	200	
		United States [4] (NIOSH)	<b>Eight hours</b>	150	
			<b>Short term</b>	200	
		United States [5] (OSHA)	<b>Eight hours</b>	150	710
			<b>Short term</b>		
heptan-2-one, methyl amyl ketone	110-43-0	European Union [6]	<b>Eight hours</b>	50 (skin)	238 (skin)
			<b>Short term</b>	100 (skin)	475 (skin)
		United Kingdom [1]	<b>Eight hours</b>	50	237
			<b>Short term</b>	100	475
		Éire [2]	<b>Eight hours</b>	50	238
			<b>Short term</b>	100	475
		United States [3] (Cal/OSHA)	<b>Eight hours</b>	50	
			<b>Short term</b>		
		United States [4] (NIOSH)	<b>Eight hours</b>	100	
			<b>Short term</b>		
United States [5] (OSHA)	<b>Eight hours</b>	100	465		
	<b>Short term</b>				
xylene	1330-20-7	European Union [6]	<b>Eight hours</b>	50 (skin)	221 (skin)
			<b>Short term</b>	100 (skin)	442 (skin)
		United Kingdom [1]	<b>Eight hours</b>	50	220
			<b>Short term</b>	100	441
		Éire [2]	<b>Eight hours</b>	50	221
			<b>Short term</b>	100	442
		United States [3] (Cal/OSHA)	<b>Eight hours</b>	100	
			<b>Short term</b>	150 (Ceiling) 300	
		United States [4] (NIOSH)	<b>Eight hours</b>	100	
			<b>Short term</b>	150	
United States [5] (OSHA)	<b>Eight hours</b>	100	435		
	<b>Short term</b>				
propan-2-ol, isopropyl alcohol, isopropanol	67-63-0	United Kingdom [1]	<b>Eight hours</b>	400	999
			<b>Short term</b>	500	1250
		Éire [2]	<b>Eight hours</b>	200	
			<b>Short term</b>	400	
		United States [3] (Cal/OSHA)	<b>Eight hours</b>	400	
			<b>Short term</b>	500	
		United States [4] (NIOSH)	<b>Eight hours</b>	400	
			<b>Short term</b>	500	
		United States [5] (OSHA)	<b>Eight hours</b>	400	980
			<b>Short term</b>		
2-methoxy-1-methylethyl acetate	108-65-6	European Union [6]	<b>Eight hours</b>	50 (skin)	275 (skin)
			<b>Short term</b>	100 (skin)	550 (skin)
		United Kingdom [1]	<b>Eight hours</b>	50	274
			<b>Short term</b>	100	548
		Éire [2]	<b>Eight hours</b>	50	275
			<b>Short term</b>	100	550
4-methylpentan-2-one, isobutyl methyl ketone	108-10-1	European Union [6]	<b>Eight hours</b>	20	83
			<b>Short term</b>	50	208
		United Kingdom [1]	<b>Eight hours</b>	50	208
			<b>Short term</b>	100	416
Éire [2]	<b>Eight hours</b>	20	83		

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## KCS-LG-KCS Lime Green

Version 1 Date of compilation: 11/03/2018

Version 5 (replaces version 4)

Revision date: 18/12/2020

Page 7 of 23

Print date: 02/03/2021

			<b>Short term</b>	50	208
		United States [3] (Cal/OSHA)	<b>Eight hours</b>	50	
			<b>Short term</b>	75	
		United States [4] (NIOSH)	<b>Eight hours</b>	50	
			<b>Short term</b>	75	
		United States [5] (OSHA)	<b>Eight hours</b>	100	410
			<b>Short term</b>		
butan-1-ol	71-36-3	United Kingdom [1]	<b>Eight hours</b>		
			<b>Short term</b>	50	154
		Éire [2]	<b>Eight hours</b>	20	
			<b>Short term</b>		
		United States [3] (Cal/OSHA)	<b>Eight hours</b>	(Ceiling) 50	
			<b>Short term</b>		
		United States [4] (NIOSH)	<b>Eight hours</b>	(Ceiling) 50	
			<b>Short term</b>		
		United States [5] (OSHA)	<b>Eight hours</b>	100	300
			<b>Short term</b>		
ethylbenzene	100-41-4	European Union [6]	<b>Eight hours</b>	100 (skin)	442 (skin)
			<b>Short term</b>	200 (skin)	884 (skin)
		United Kingdom [1]	<b>Eight hours</b>	100	441
			<b>Short term</b>	125	552
		Éire [2]	<b>Eight hours</b>	100	442
			<b>Short term</b>	200	884
		United States [3] (Cal/OSHA)	<b>Eight hours</b>	5	
			<b>Short term</b>	30	
		United States [4] (NIOSH)	<b>Eight hours</b>	100	
			<b>Short term</b>	125	
		United States [5] (OSHA)	<b>Eight hours</b>	100	435
			<b>Short term</b>		
2-butoxyethyl acetate, butylglycol acetate	112-07-2	European Union [6]	<b>Eight hours</b>	20 (skin)	133 (skin)
			<b>Short term</b>	50 (skin)	333 (skin)
		United Kingdom [1]	<b>Eight hours</b>	20	133
			<b>Short term</b>	50	332
		Éire [2]	<b>Eight hours</b>	20	133
	<b>Short term</b>	50	333		
methyl methacrylate, methyl 2-methylprop-2-enoate, methyl 2-methylpropenoate	80-62-6	European Union [6]	<b>Eight hours</b>	50	
			<b>Short term</b>	100	
		United Kingdom [1]	<b>Eight hours</b>	50	208
			<b>Short term</b>	100	416
		Éire [2]	<b>Eight hours</b>	50	
			<b>Short term</b>	100	
		United States [3] (Cal/OSHA)	<b>Eight hours</b>	50	
			<b>Short term</b>	100	
		United States [4] (NIOSH)	<b>Eight hours</b>	100	
			<b>Short term</b>		
		United States [5] (OSHA)	<b>Eight hours</b>	100	410
			<b>Short term</b>		
toluene	108-88-3	European Union [6]	<b>Eight hours</b>	50 (skin)	192 (skin)
			<b>Short term</b>	100 (skin)	384 (skin)
		United Kingdom [1]	<b>Eight hours</b>	50	191
			<b>Short term</b>	100	384
		Éire [2]	<b>Eight hours</b>	50	192
			<b>Short term</b>	100	384
		United States [3] (Cal/OSHA)	<b>Eight hours</b>	10	
			<b>Short term</b>	150 (Ceiling) 500	
		United States [4] (NIOSH)	<b>Eight hours</b>	100	
			<b>Short term</b>	150	

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## KCS-LG-KCS Lime Green

Version 1 Date of compilation: 11/03/2018

Version 5 (replaces version 4)

Revision date: 18/12/2020

Page 8 of 23

Print date: 02/03/2021

			<b>Eight hours</b>	200	
		United States [5] (OSHA)	<b>Short term</b>	300 Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift: 500 [10 min]	
2-methylpropan-1-ol, iso-butanol	78-83-1	United Kingdom [1]	<b>Eight hours</b>	50	154
			<b>Short term</b>	75	231
		Éire [2]	<b>Eight hours</b>	50	150
			<b>Short term</b>	75	225
		United States [3] (Cal/OSHA)	<b>Eight hours</b>	50	
			<b>Short term</b>		
		United States [4] (NIOSH)	<b>Eight hours</b>	50	
			<b>Short term</b>		
United States [5] (OSHA)	<b>Eight hours</b>	100	300		
	<b>Short term</b>				

[1] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adopted by Health and Safety Executive.

[2] According Code of Practice for the Safety, Health and Welfare at Work (Chemicals Agents) Regulations adopted by Health and Safety Authority (HSA).

[3] California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).

[4] National Institute for Occupational Safety and Health. NIOSH Recommendations for occupational safety and health, Compendium of Policy Documents and Statements, January, 1992, DHHS (NIOSH) Publication No. 92-100.

[5] Occupational Safety and Health Administration, United States Department of Labor. Permissible Exposure limits (PELs), California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).

[6] According both Binding Occupational Exposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
n-butyl acetate CAS No: 123-86-4 EC No: 204-658-1	DNEL (Workers)	Inhalation, Long-term, Systemic effects	480 (mg/m <sup>3</sup> )
	DNEL (General population)	Inhalation, Long-term, Systemic effects	102,34 (mg/m <sup>3</sup> )
	DNEL (Workers)	Inhalation, Acute, Systemic effects	960 (mg/m <sup>3</sup> )
	DNEL (General population)	Inhalation, Acute, Systemic effects	859,7 (mg/m <sup>3</sup> )
	DNEL (Workers)	Inhalation, Long-term, Local effects	480 (mg/m <sup>3</sup> )
	DNEL (General population)	Inhalation, Long-term, Local effects	102,34 (mg/m <sup>3</sup> )
	DNEL (Workers)	Inhalation, Acute, Local effects	960 (mg/m <sup>3</sup> )
	DNEL (General population)	Inhalation, Acute, Local effects	859,7 (mg/m <sup>3</sup> )
	DNEL (General population)	Oral, Long-term, Systemic effects	3,4 (mg/kg bw/day)
	DNEL (General population)	Dermal, Long-term, Systemic effects	3,4 (mg/kg bw/day)
heptan-2-one, methyl amyl ketone CAS No: 110-43-0 EC No: 203-767-1	DNEL (Workers)	Inhalation, Long-term, Systemic effects	394,25 (mg/m <sup>3</sup> )
xylene CAS No: 1330-20-7 EC No: 215-535-7	DNEL (Workers)	Inhalation, Long-term, Systemic effects	77 (mg/m <sup>3</sup> )
propan-2-ol, isopropyl alcohol, isopropanol CAS No: 67-63-0	DNEL (Workers)	Inhalation, Long-term, Systemic effects	500 (mg/m <sup>3</sup> )

-Continued on next page.-



# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## KCS-LG-KCS Lime Green

Version 1 Date of compilation: 11/03/2018

Version 5 (replaces version 4)

Revision date: 18/12/2020

Page 9 of 23

Print date: 02/03/2021

EC No: 200-661-7	DNEL (General population)	Inhalation, Long-term, Systemic effects	89 (mg/m <sup>3</sup> )
	DNEL (Workers)	Dermal, Long-term, Systemic effects	888 (mg/kg bw/day)
	DNEL (General population)	Dermal, Long-term, Systemic effects	319 (mg/kg bw/day)
	DNEL (General population)	Oral, Long-term, Systemic effects	26 (mg/kg bw/day)
2-methoxy-1-methylethyl acetate CAS No: 108-65-6 EC No: 203-603-9	DNEL (Workers)	Inhalation, Long-term, Systemic effects	275 (mg/m <sup>3</sup> )
	DNEL (General population)	Inhalation, Long-term, Systemic effects	33 (mg/m <sup>3</sup> )
	DNEL (Workers)	Dermal, Long-term, Systemic effects	153,5 (mg/kg bw/day)
	DNEL (General population)	Dermal, Long-term, Systemic effects	54,8 (mg/kg bw/day)
	DNEL (General population)	Oral, Long-term, Systemic effects	1,67 (mg/kg bw/day)
4-methylpentan-2-one, isobutyl methyl ketone CAS No: 108-10-1 EC No: 203-550-1	DNEL (Workers)	Inhalation, Long-term, Local effects	83 (mg/m <sup>3</sup> )
	DNEL (General population)	Inhalation, Long-term, Local effects	14,7 (mg/m <sup>3</sup> )
	DNEL (Workers)	Inhalation, Long-term, Systemic effects	83 (mg/m <sup>3</sup> )
	DNEL (General population)	Inhalation, Long-term, Systemic effects	14,7 (mg/m <sup>3</sup> )
	DNEL (Workers)	Inhalation, Acute, Systemic effects	208 (mg/m <sup>3</sup> )
	DNEL (General population)	Inhalation, Acute, Systemic effects	155,2 (mg/m <sup>3</sup> )
	DNEL (Workers)	Inhalation, Acute, Local effects	208 (mg/m <sup>3</sup> )
	DNEL (General population)	Inhalation, Acute, Local effects	155,2 (mg/m <sup>3</sup> )
	DNEL (Workers)	Dermal, Long-term, Systemic effects	11,8 (mg/kg bw/day)
	DNEL (General population)	Dermal, Long-term, Systemic effects	4,2 (mg/kg bw/day)
	DNEL (General population)	Oral, Long-term, Systemic effects	4,2 (mg/kg bw/day)
butan-1-ol CAS No: 71-36-3 EC No: 200-751-6	DNEL (Workers)	Inhalation, Long-term, Local effects	310 (mg/m <sup>3</sup> )
	DNEL (General population)	Inhalation, Long-term, Local effects	55 (mg/m <sup>3</sup> )
	DNEL (General population)	Oral, Long-term, Systemic effects	3,125 (mg/kg bw/day)
ethylbenzene CAS No: 100-41-4 EC No: 202-849-4	DNEL (Workers)	Inhalation, Long-term, Systemic effects	77 (mg/m <sup>3</sup> )
2-butoxyethyl acetate, butylglycol acetate CAS No: 112-07-2 EC No: 203-933-3	DNEL (Workers)	Inhalation, Long-term, Systemic effects	133 (mg/m <sup>3</sup> )
methyl methacrylate, methyl 2-methylprop-2-enoate, methyl 2-methylpropenoate	DNEL (Workers)	Inhalation, Long-term, Local effects	208 (mg/m <sup>3</sup> )

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## KCS-LG-KCS Lime Green

Version 1 Date of compilation: 11/03/2018

Version 5 (replaces version 4)

Revision date: 18/12/2020

Page 10 of 23

Print date: 02/03/2021

CAS No: 80-62-6 EC No: 201-297-1	DNEL (Workers)	Inhalation, Long-term, Systemic effects	208 (mg/m <sup>3</sup> )
toluene CAS No: 108-88-3 EC No: 203-625-9	DNEL (Workers)	Inhalation, Long-term, Local effects	192 (mg/m <sup>3</sup> )
	DNEL (General population)	Inhalation, Long-term, Local effects	56,5 (mg/m <sup>3</sup> )
	DNEL (Workers)	Inhalation, Long-term, Systemic effects	192 (mg/m <sup>3</sup> )
	DNEL (General population)	Inhalation, Long-term, Systemic effects	56,5 (mg/m <sup>3</sup> )
	DNEL (Workers)	Inhalation, Acute, Systemic effects	384 (mg/m <sup>3</sup> )
	DNEL (General population)	Inhalation, Acute, Systemic effects	226 (mg/m <sup>3</sup> )
	DNEL (Workers)	Inhalation, Acute, Local effects	384 (mg/m <sup>3</sup> )
	DNEL (General population)	Inhalation, Acute, Local effects	226 (mg/m <sup>3</sup> )
	DNEL (Workers)	Dermal, Long-term, Systemic effects	384 (mg/kg bw/day)
	DNEL (General population)	Dermal, Long-term, Systemic effects	226 (mg/kg bw/day)
	DNEL (General population)	Oral, Long-term, Systemic effects	8,13 (mg/kg bw/day)
2-methylpropan-1-ol, iso-butanol CAS No: 78-83-1 EC No: 201-148-0	DNEL (Workers)	Inhalation, Long-term, Local effects	310 (mg/m <sup>3</sup> )
	DNEL (General population)	Inhalation, Long-term, Local effects	55 (mg/m <sup>3</sup> )

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

Concentration levels PNEC:

Name	Details	Value
n-butyl acetate CAS No: 123-86-4 EC No: 204-658-1	aqua (freshwater)	0,18 (mg/l)
	aqua (marine water)	0,018 (mg/l)
	aqua (intermittent releases)	0,36 (mg/l)
	STP	35,6 (mg/l)
	sediment (freshwater)	0,981 (mg/kg sediment dw)
	sediment (marine water)	0,0981 (mg/kg sediment dw)
	propan-2-ol, isopropyl alcohol, isopropanol CAS No: 67-63-0 EC No: 200-661-7	aqua (freshwater)
aqua (marine water)		140,9 (mg/L)
aqua (intermittent releases)		140,9 (mg/L)
sediment (freshwater)		552 (mg/kg sediment dw)
sediment (marine water)		552 (mg/kg sediment dw)
Soil		28 (mg/kg soil dw)
STP		2251 (mg/L)
2-methoxy-1-methylethyl acetate	oral (Hazard for predators)	160 (mg/kg food)
	aqua (freshwater)	0,635 (mg/L)

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## KCS-LG-KCS Lime Green

Version 1 Date of compilation: 11/03/2018

Version 5 (replaces version 4)

Revision date: 18/12/2020

Page 11 of 23

Print date: 02/03/2021

CAS No: 108-65-6 EC No: 203-603-9	aqua (marine water)	0,0635 (mg/L)
	aqua (intermittent releases)	6,35 (mg/L)
	STP	100 (mg/L)
	sediment (freshwater)	3,29 (mg/kg sediment dw)
	sediment (marine water)	0,329 (mg/kg sediment dw)
	soil	0,29 (mg/kg soil dw)
4-methylpentan-2-one, isobutyl methyl ketone CAS No: 108-10-1 EC No: 203-550-1	aqua (freshwater)	0,6 (mg/L)
	aqua (marine water)	0,06 (mg/L)
	aqua (intermittent releases)	1,5 (mg/L)
	STP	27,5 (mg/L)
	sediment (freshwater)	8,27 (mg/kg sediment dw)
	sediment (marine water)	0,83 (mg/kg sediment dw)
butan-1-ol CAS No: 71-36-3 EC No: 200-751-6	aqua (freshwater)	0,082 (mg/L)
	aqua (marine water)	0,0082 (mg/L)
	aqua (intermittent releases)	2,25 (mg/L)
	STP	2476 (mg/L)
	sediment (freshwater)	0,178 (mg/kg sediment dw)
	sediment (marine water)	0,0178 (mg/kg sediment dw)
toluene CAS No: 108-88-3 EC No: 203-625-9	aqua (freshwater)	0,68 (mg/L)
	aqua (marine water)	0,68 (mg/L)
	aqua (intermittent releases)	0,68 (mg/L)
	STP	13,61 (mg/L)
	sediment (freshwater)	16,39 (mg/kg sediment dw)
	sediment (marine water)	16,39 (mg/kg sediment dw)
2-methylpropan-1-ol, iso-butanol CAS No: 78-83-1 EC No: 201-148-0	aqua (freshwater)	0,4 (mg/L)
	aqua (marine water)	0,04 (mg/L)
	aqua (intermittent releases)	11 (mg/L)
	STP	10 (mg/L)
	sediment (freshwater)	1,52 (mg/kg sediment dw)
	sediment (marine water)	0,152 (mg/kg sediment dw)
soil	0,0699 (mg/kg soil dw)	

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

### 8.2 Exposure controls.

#### Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration:	100 %
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-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## KCS-LG-KCS Lime Green





Version 1 Date of compilation: 11/03/2018

Version 5 (replaces version 4)

Revision date: 18/12/2020

Page 12 of 23

Print date: 02/03/2021

<b>Uses:</b> Solvent-based colors for airbrush painting					
<b>Breathing protection:</b>					
PPE:	Filter mask for protection against gases and particles.				
Characteristics:	«CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.				
CEN standards:	EN 136, EN 140, EN 405				
Maintenance:	Should not be stored in places exposed to high temperatures and damp environments before use. Special attention should be paid to the state of the inhalation and exhalation valves in the face adaptor. Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer.				
Observations:	Filter Type needed: A2				
<b>Hand protection:</b>					
PPE:	Work gloves.				
Characteristics:	«CE» marking, category I.				
CEN standards:	EN 374-1, En 374-2, EN 374-3, EN 420				
Maintenance:	Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives.				
Observations:	Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Always use with clean, dry hands.				
Material:	PVC (polyvinyl chloride)	Breakthrough time (min.):	> 480	Material thickness (mm):	0,35
<b>Eye protection:</b>					
PPE:	Face shield.				
Characteristics:	«CE» marking, category II. Face and eye protector against splashing liquid.				
CEN standards:	EN 165, EN 166, EN 167, EN 168				
Maintenance:	Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions. Make sure that mobile parts move smoothly.				
Observations:	Face shields should offer a field of vision with a dimension in the central line of, at least, 150 mm vertically once attached to the frame.				
<b>Skin protection:</b>					
PPE:	Anti-static protective clothing.				
Characteristics:	«CE» marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user's movements.				
CEN standards:	EN 340, EN 1149-1, EN 1149-2, EN 1149-3, EN 1149-5				
Maintenance:	In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.				
Observations:	The protective clothing should offer a level of comfort in line with the level of protection provided in terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use.				
PPE:	Anti-static safety footwear.				
Characteristics:	«CE» marking, category II.				
CEN standards:	EN ISO 13287, EN ISO 20344, EN ISO 20346				
Maintenance:	The footwear should be checked regularly				
Observations:	The level of comfort during use and acceptability are factors that are assessed very differently depending on the user. Therefore, it is advisable to try on different footwear models and, if possible, different widths.				

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

### 9.1 Information on basic physical and chemical properties.

Appearance: Liquid with characteristic odour

Colour: rojo

Odour: N.A./N.A.

Odour threshold: N.A./N.A.

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## KCS-LG-KCS Lime Green

**Version 1**      **Date of compilation: 11/03/2018**

**Version 5 (replaces version 4)**

**Revision date: 18/12/2020**

**Page 13 of 23**

**Print date: 02/03/2021**

pH:N.A./N.A.  
Melting point:N.A./N.A.  
Boiling Point: 97 °C  
Flash point: 23 °C  
Evaporation rate: N.A./N.A.  
Inflammability (solid, gas): N.A./N.A.  
Lower Explosive Limit: N.A./N.A.  
Upper Explosive Limit: N.A./N.A.  
Vapour pressure: 19,695  
Vapour density:N.A./N.A.  
Relative density:0,893  
Solubility:N.A./N.A.  
Liposolubility: N.A./N.A.  
Hydrosolubility: N.A./N.A.  
Partition coefficient (n-octanol/water): N.A./N.A.  
Auto-ignition temperature: N.A./N.A.  
Decomposition temperature: N.A./N.A.  
Viscosity: N.A./N.A.  
Explosive properties: N.A./N.A.  
Oxidizing properties: N.A./N.A.  
N.A./N.A.= Not Available/Not Applicable due to the nature of the product

### 9.2 Other information.

Dropping point: N.A./N.A.  
Blink: N.A./N.A.  
Kinematic viscosity: N.A./N.A.  
N.A./N.A.= Not Available/Not Applicable due to the nature of the product

## SECTION 10: STABILITY AND REACTIVITY.

### 10.1 Reactivity.

If the storage conditions are satisfied, does not produce dangerous reactions.

### 10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

### 10.3 Possibility of hazardous reactions.

Flammable liquid and vapour.

### 10.4 Conditions to avoid.

Avoid the following conditions:

- High temperature.
- Static discharge.
- Contact with incompatible materials.
- Avoid temperatures near or above the flash point. Do not heat closed containers. Avoid direct sunlight and heat, as these may cause a risk of fire.

### 10.5 Incompatible materials.

Avoid the following materials:

- Explosives materials.
- Toxic materials.
- Oxidizing materials.

### 10.6 Hazardous decomposition products.

In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION.

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## KCS-LG-KCS Lime Green

Version 1 Date of compilation: 11/03/2018

Version 5 (replaces version 4)

Revision date: 18/12/2020

Page 14 of 23

Print date: 02/03/2021

2-butoxyethanol and its acetate are easily absorbed by the skin and can cause noxious effects to the kidneys.

IRRITANT MIXTURE. Splashes in the eyes can cause irritation.

IRRITANT MIXTURE. The inhalation of spray mist or suspended particulates can irritate the respiratory tract. It can also cause serious respiratory difficulties, central nervous system disorders, and in extreme cases, unconsciousness.

IRRITANT MIXTURE. Its repeated or prolonged contact with the skin or mucous membranes can cause irritant symptoms such as reddening of the skin, blisters, or dermatitis. Some of the symptoms may not be immediate. They can cause allergic reactions on the skin.

### 11.1 Information on toxicological effects.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

### Toxicological information about the substances present in the composition.

Name	Acute toxicity			
	Type	Test	Kind	Value
n-butyl acetate  CAS No: 123-86-4      EC No: 204-658-1	Oral	LD50	Rat	10800 mg/kg bw [1] [1] Acute Toxicity Data. Journal of the American College of Toxicology, Part B. Vol. 1, Pg. 196, 1992
	Dermal	LD50	Rabbit	>17600 mg/kg bw [1] [1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 7, 1974
	Inhalation	LC50	Rat	1.85 mg/l/4 h [1] [1] Inhalation Toxicology. Vol. 9, Pg. 623, 1997
xylene  CAS No: 1330-20-7      EC No: 215-535-7	Oral	LD50	Rat	4300 mg/kg bw [1] [1] AMA Archives of Industrial Health. Vol. 14, Pg. 387, 1956
	Dermal	LD50	Rabbit	> 1700 mg/kg bw [1] [1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 123, 1974
	Inhalation	LC50	Rat	21,7 mg/l/4 h [1] [1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 123, 1974
propan-2-ol, isopropyl alcohol, isopropanol  CAS No: 67-63-0      EC No: 200-661-7	Oral	LD50	Rat	5050 mg/kg bw [1] [1] Gigena i Sanitariya. For English translation, see HYSAAV. Vol. 43(1), Pg. 8, 1978
	Dermal	LD50	Rabbit	12800 mg/kg bw [1] [1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 100, 1974
	Inhalation	LC50	Rat	>10000 ppm (6 h) [1] [1] OECD Guideline 403 (Acute Inhalation Toxicity), study report, 1991
2-methoxy-1-methylethyl acetate  CAS No: 108-65-6      EC No: 203-603-9	Oral	LD50	Rat	6190 mg/kg bw [1] [1] Study report, 1985. OECD Guideline 401 (Acute Oral Toxicity).
	Dermal	LD50	Rabbit	>5000 mg/kg bw [1] [1] Dow Chemical Company Reports. Vol. MSD-1582
	Inhalation	LC0	Rat	>4345 ppm (6 h) [1] [1] Study report, 1980. OECD Guideline 403 (Acute Inhalation Toxicity).

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## KCS-LG-KCS Lime Green

Version 1 Date of compilation: 11/03/2018

Version 5 (replaces version 4)

Revision date: 18/12/2020

Page 15 of 23

Print date: 02/03/2021

4-methylpentan-2-one, isobutyl methyl ketone  CAS No: 108-10-1      EC No: 203-550-1	Oral	LD50      Rat      2080 mg/kg bw [1] [1] Union Carbide Data Sheet. Vol. 4/25/1958
	Dermal	LD0      Rat      >=2000 mg/kg bw [1] [1] OECD Guideline 402 (Acute Dermal Toxicity) 1987, experimental result, 1996.
	Inhalation	LC50      Rat      >2000 <4000 ppm (4 h) [1] [1] RANGE-FINDING TOXICITY DATA: LIST IV, Smyth HF, Carpenter CP & Weil CS, 1951.
butan-1-ol  CAS No: 71-36-3      EC No: 200-751-6	Oral	LD50      Rat      4360 mg/kg bw [1] [1] Union Carbide Corp. Bushy Run Research Center,  Project Report No.14-73. Export, PA. 1951.
	Dermal	LD50      Rabbit      3402 mg/kg bw [1] [1] Union Carbide Corp. Bushy Run Research Center,  Project Report No.14-73. Export, PA. 1951.
	Inhalation	LC50      Rat      7500 ppm (8 h) [1] [1] Union Carbide Corp. Bushy Run Research Center,  Project Report No.14-73. Export, PA. 1951.
ethylbenzene  CAS No: 100-41-4      EC No: 202-849-4	Oral	LD50      Rat      3500 mg/kg bw [1] [1] AMA Archives of Industrial Health. Vol. 14, Pg. 387, 1956
	Dermal	LD50      Rabbit      15400 mg/kg bw [1] [1] Food and Cosmetics Toxicology. Vol. 13, Pg. 803, 1975
	Inhalation	
2-methylpropan-1-ol, iso-butanol  CAS No: 78-83-1      EC No: 201-148-0	Oral	LD50      Rat      2830 mg/kg bw [1] [1] Christopher, S.M. November 30, 1993. "Isobutanol: Acute toxicity and irritancy testing using the rat (peroral and inhalation toxicity) and the rabbit (cutaneous and ocular tests)". Bushy Run Research Center, Union Carbide Corp. Lab. Proj. ID 92U1166
	Dermal	LD50      Rabbit      4240 mg/kg bw [1] [1] Smyth H.F. Jr. et al.: AMA Arch. Ind. Hyg. Occup. Med., 10, 61-68, (1954) as cited in IUCLID.
	Inhalation	

a) acute toxicity;

Not conclusive data for classification.

Acute Toxicity Estimate (ATE):

Mixtures:

ATE (Dermal) = 7.323 mg/kg

ATE (Oral) = 2.266 mg/kg

b) skin corrosion/irritation;

Product classified:

Skin irritant, Category 2: Causes skin irritation.

c) serious eye damage/irritation;

Product classified:

Eye irritation, Category 2: Causes serious eye irritation.

d) respiratory or skin sensitisation;

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## KCS-LG-KCS Lime Green

Version 1 Date of compilation: 11/03/2018

Version 5 (replaces version 4)

Revision date: 18/12/2020

Page 16 of 23

Print date: 02/03/2021

Based on available data, the classification criteria are not met.

e) germ cell mutagenicity;  
Not conclusive data for classification.

f) carcinogenicity;  
Not conclusive data for classification.

g) reproductive toxicity;  
Based on available data, the classification criteria are not met.

h) STOT-single exposure;  
Product classified:  
Specific target organ toxicity following a single exposure, Category 3:

i) STOT-repeated exposure;  
Based on available data, the classification criteria are not met.

j) aspiration hazard;  
Based on available data, the classification criteria are not met.

### SECTION 12: ECOLOGICAL INFORMATION.

#### 12.1 Toxicity.

Name	Ecotoxicity			
	Type	Test	Kind	Value
n-butyl acetate  CAS No: 123-86-4      EC No: 204-658-1	Fish	LC50	Fish	81 mg/l (96 h) [1] [1] Wellens, H. 1982. Comparison of the Sensitivity of Brachydanio rerio and Leuciscus idus by Testing the Fish Toxicity of Chemicals and Wastewaters. Z.Wasser-Abwasser-Forsch. 51(2):49-52 (GER) (ENG ABS). Dawson, G.W., A.L. Jennings, D. Drozdowski, and E. Rider 1977. The Acute Toxicity of 47 Industrial Chemicals to Fresh and Saltwater Fishes. J.Hazard.Mater. 1(4):303-318 (OECDG Data File)
	Aquatic invertebrates	EC50	Daphnia sp.	44 mg/l (48 h) [1] [1] publication, 1959
	Aquatic plants	EC50	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	674.7 mg/l (72 h) [1] [1] Method: other: algae growth inhibition test, according to Umweltbundesamt (German Federal Environment Agency) (proposal/draft, version February 1984)
xylene	Fish	LC50	Fish	15,7 mg/l (96 h) [1] [1] Bailey, H.C., D.H.W. Liu, and H.A. Javitz 1985. Time/Toxicity Relationships in Short-Term Static, Dynamic, and Plug-Flow Bioassays. In: R.C.Bahner and D.J.Hansen (Eds.), Aquatic Toxicology and Hazard Assessment, 8th Symposium, ASTM STP 891, Philadelphia, PA :193-212
	Aquatic	LC50	Crustacean	8,5 mg/l (48 h) [1]

-Continued on next page.-



# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## KCS-LG-KCS Lime Green

Version 1 Date of compilation: 11/03/2018

Version 5 (replaces version 4)

Revision date: 18/12/2020

Page 17 of 23

Print date: 02/03/2021

	invertebrates	[1] Tatem, H.E., B.A. Cox, and J.W. Anderson 1978. The Toxicity of Oils and Petroleum Hydrocarbons to Estuarine Crustaceans. Estuar.Coast.Mar.Sci. 6(4):365-373. Tatem, H.E. 1975. The Toxicity and Physiological Effects of Oil and Petroleum Hydrocarbons on Estuarine Grass Shrimp Palaemonetes pugio (Holthuis). Ph.D.Thesis, Texas A&M University, College Station, TX :133 p
CAS No: 1330-20-7 EC No: 215-535-7	Aquatic plants	
propan-2-ol, isopropyl alcohol, isopropanol	Fish	LC50 Fish 9640 mg/l (96 h) [1] [1] Brooke, L.T., D.J. Call, D.L. Geiger, and C.E. Northcott 1984. Acute Toxicities of Organic Chemicals to Fathead Minnows (Pimephales promelas), Vol. 1. Center for Lake Superior Environmental Stud., Univ.of Wisconsin-Superior, Superior, WI :414
	Aquatic invertebrates	LC50 Crustacean 1400 mg/l (48 h) [1] [1] Blackman, R.A.A. 1974. Toxicity of Oil-Sinking Agents. Mar.Pollut.Bull. 5:116-118
	Aquatic plants	Toxicity threshold Scenedesmus quadricauda 1800 mg/L (7 d) [1] [1] Comparison of the Toxicity Thresholds of Water Pollutants to Bacteria, Algae, and Protozoa in the Cell Multiplication Inhibition Test, Water Research Vol. 14. pp. 231 to 241
	CAS No: 67-63-0 EC No: 200-661-7	
2-methoxy-1-methylethyl acetate	Fish	LC50 Oryzias latipes 100 mg/L (96 h) [1] [1] Environment Agency of Japan (1998)
	Aquatic invertebrates	EC50 Daphnia magna 407 mg/L (48 h) [1] [1] Environment Agency of Japan (1998)
	Aquatic plants	EC50 Selenastrum capricornutum (Pseudokirchnerella subcapitata) >1000 mg/L (72 h) [1] [1] Environment Agency of Japan (1998)
CAS No: 108-65-6 EC No: 203-603-9		
4-methylpentan-2-one, isobutyl methyl ketone	Fish	LC50 Danio rerio >179 mg/l (96 h) [1] [1] Experimental result, April 29 to May 03, 2010.
	Aquatic invertebrates	EC50 Daphnia magna 1550 mg/l (24 h) [1] [1] OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
	Aquatic plants	EC50 Lemna gibba >146 mg/l (7 d) [1] [1] Study report, 2010. OECD Guideline 221 (Lemna sp. Growth Inhibition test)
CAS No: 108-10-1 EC No: 203-550-1		
butan-1-ol	Fish	LC50 Pimephales promelas 1376 mg/L (96 h) [1] [1] Wong, D.C.L, P.B. Dorn, and J.P. Salanitro. 1998. Aquatic Toxicity of Four Oxy-Solvents. Equilon Enterprises, LLC Technical Information Record WTC-3520.
	Aquatic	EC50 Daphnia magna 1328 mg/L (48 h) [1]

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## KCS-LG-KCS Lime Green

Version 1 Date of compilation: 11/03/2018  
Version 5 (replaces version 4)

Revision date: 18/12/2020

Page 18 of 23  
Print date: 02/03/2021

CAS No: 71-36-3      EC No: 200-751-6	invertebrates	[1] Wong, D.C.L, P.B. Dorn, and J.P. Salanitro. 1998. Aquatic Toxicity of Four Oxy-Solvents. Equilon Enterprises, LLC Technical Information Record WTC-3520.
	Aquatic plants	Selenastrum capricornutum (Pseudokirchnerella subcapitata) 717 mg/L (96 h) [1] [1] Wong, D.C.L, P.B. Dorn, and J.P. Salanitro. 1998. Aquatic Toxicity of Four Oxy-Solvents. Equilon Enterprises, LLC Technical Information Record WTC-3520.
ethylbenzene  CAS No: 100-41-4      EC No: 202-849-4	Fish	LC50 Fish 80 mg/l (96 h) [1] [1] Mayer, F.L.Jr., and M.R. Ellersieck 1986. Manual of Acute Toxicity: Interpretation and Data Base for 410 Chemicals and 66 Species of Freshwater Animals. Resour.Publ.No.160, U.S.Dep.Interior, Fish Wildl.Serv., Washington, DC :505 p. (USGS Data File)
	Aquatic invertebrates	LC50 Crustacean 16,2 mg/l (48 h) [1] [1] MacLean, M.M., and K.G. Doe 1989. The Comparative Toxicity of Crude and Refined Oils to Daphnia magna and Artemia. Environment Canada, EE-111, Dartmouth, Nova Scotia :64 p
	Aquatic plants	EC50 Algae 5 mg/l (72 h) [1] [1] Galassi, S., M. Mingazzini, L. Vigano, D. Cesareo, and M.L. Tosato 1988. Approaches to Modeling Toxic Responses of Aquatic Organisms to Aromatic Hydrocarbons. Ecotoxicol.Environ.Saf. 16(2):158-169. Masten, L.W., R.L. Boeri, and J.D. Walker 1994. Strategies Employed to Determine the Acute Aquatic Toxicity of Ethyl Benzene, a Highly Volatile, Poorly Water-Soluble Chemical. Ecotoxicol.Environ.Saf. 27(3):335-348
	Fish	LC50 Fish 31,7 mg/l (96 h) [1] [1] Geiger, D.L., L.T. Brooke, and D.J. Call 1990. Acute Toxicities of Organic Chemicals to Fathead Minnows (Pimephales promelas), Volume 5. Ctr.for Lake Superior Environ.Stud., Univ.of Wisconsin-Superior, Superior, WI :332 p
toluene  CAS No: 108-88-3      EC No: 203-625-9	Aquatic invertebrates	LC50 Crustacean 92 mg/l (48 h) [1] [1] MacLean, M.M., and K.G. Doe 1989. The Comparative Toxicity of Crude and Refined Oils to Daphnia magna and Artemia. Environment Canada, EE-111, Dartmouth, Nova Scotia :64 p
	Aquatic plants	EC50 Algae 12,5 mg/l (72 h) [1] [1] Galassi, S., M. Mingazzini, L. Vigano, D. Cesareo, and M.L.Tosato 1988. Approaches to Modeling Toxic Responses of Aquatic Organisms to Aromatic Hydrocarbons. Ecotoxicol.Environ.Saf. 16(2):158-169
	Fish	EC50 Pimephales promelas 1430 mg/L (96 h h) [1] [1] Brooke, L.T. et al., 1984. Acute Toxicities of Organic Chemicals to Fathead Minnows (Pimephales promelas). Vol. I. Center for Lake Superior Environmental Studies. University of Wisconsin-Superior.
2-methylpropan-1-ol, iso-butanol	Aquatic	EC50 Daphnia magna 1300 mg/L (48 h) [1]

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## KCS-LG-KCS Lime Green

Version 1 Date of compilation: 11/03/2018

Version 5 (replaces version 4)

Revision date: 18/12/2020

Page 19 of 23

Print date: 02/03/2021

CAS No: 78-83-1      EC No: 201-148-0	invertebrates	[1] Elnabarawy MT, Welter AN, Robideau RR. 1986. relative sensitivity of three daphnid species to selected organic and inorganic chemicals. Environ Toxicol Chem 5: 393-398.
	Aquatic plants	EC90 Selenastrum capricornutum (Pseudokirchnerella subcapitata) 717 mg/L (96 h) [1] [1] Wong, D.C.L, P.B. Dorn, and J.P. Salanitro. 1998. Aquatic Toxicity of Four Oxy-Solvents. Equilon Enterprises, LLC Technical Information Record WTC-3520.

### 12.2 Persistence and degradability.

No information is available regarding the biodegradability of the substances present.

No information is available on the degradability of the substances present. No information is available about persistence and degradability of the product.

### 12.3 Bioaccumulative potential.

Information about the bioaccumulation of the substances present.

Name	Bioaccumulation			
	Log Pow	BCF	NOECs	Level
n-butyl acetate CAS No: 123-86-4      EC No: 204-658-1	1,78	-	-	Very low
heptan-2-one, methyl amyl ketone CAS No: 110-43-0      EC No: 203-767-1	1,98	-	-	Very low
propan-2-ol, isopropyl alcohol, isopropanol CAS No: 67-63-0      EC No: 200-661-7	0,05	-	-	Very low
4-methylpentan-2-one, isobutyl methyl ketone CAS No: 108-10-1      EC No: 203-550-1	1,31	-	-	Very low
butan-1-ol CAS No: 71-36-3      EC No: 200-751-6	0,84	-	-	Very low
ethylbenzene CAS No: 100-41-4      EC No: 202-849-4	3,15	-	-	Moderate
toluene CAS No: 108-88-3      EC No: 203-625-9	2,73	-	-	Low
2-methylpropan-1-ol, iso-butanol CAS No: 78-83-1      EC No: 201-148-0	0,76	-	-	Very low

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## KCS-LG-KCS Lime Green

**Version 1**      **Date of compilation: 11/03/2018**

**Version 5 (replaces version 4)**

**Revision date: 18/12/2020**

**Page 20 of 23**

**Print date: 02/03/2021**

### 12.4 Mobility in soil.

No information is available about the mobility in soil.  
The product must not be allowed to go into sewers or waterways.  
Prevent penetration into the ground.

### 12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

### 12.6 Other adverse effects.

No information is available about other adverse effects for the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS.

### 13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.  
Follow the provisions of Directive 2008/98/EC regarding waste management.

## SECTION 14: TRANSPORT INFORMATION.

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

**Land:** Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions

**Sea:** Transport by ship: IMDG.

Transport documentation: Bill of lading

**Air:** Transport by plane: ICAO/IATA.

Transport document: Airway bill.

### 14.1 UN number.

UN No: UN1263

### 14.2 UN proper shipping name.

Description:

ADR: UN 1263, PAINT, 3, PG III, (D/E)

IMDG: UN 1263, PAINT (AMINES, C10-14-BRANCHED AND LINEAR ALKYL, BIS[2-[(4,5-DIHYDRO-3-METHYL-5-OXO-1-PHENYL-1H-PYRAZOL-4-YL)AZO]BENZOATO(2-)]CHROMATE(1-)), 3, PG III, MARINE POLLUTANT

ICAO/IATA: UN 1263, PAINT, 3, PG III

### 14.3 Transport hazard class(es).

Class(es): 3

### 14.4 Packing group.

Packing group: III

### 14.5 Environmental hazards.

Marine pollutant: Yes



Dangerous for the environment

### 14.6 Special precautions for user.

Labels: 3

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## KCS-LG-KCS Lime Green

Version 1 Date of compilation: 11/03/2018

Version 5 (replaces version 4)

Revision date: 18/12/2020

Page 21 of 23

Print date: 02/03/2021



Hazard number: 30  
ADR LQ: 5 L  
IMDG LQ: 5 L  
ICAO LQ: 10 L

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR.  
Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-E,S-E  
Proceed in accordance with point 6.

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code.

The product is not transported in bulk.

## SECTION 15: REGULATORY INFORMATION.

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

#### Volatiles organic compound (VOC)

Product Subcategory (Directive 2004/42/EC): E - Special finishes (All types)

Phase I\* (from 01/01/2007): 840 g/l

Phase II\* (from 01/01/2010): 840 g/l

(\* ) g/l ready to use

VOC content (p/p): 82,857 %

VOC content: 740,099 g/l

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.

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): N/A

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles:

Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
48. Toluene CAS No 108-88-3 EC No 203-625-9	Shall not be placed on the market, or used, as a substance or in mixtures in a concentration equal to or greater than 0,1 % by weight where the substance or mixture is used in adhesives or spray paints intended for supply to the general public.

Kind of pollutant to water (Germany): WGK 2: Hazardous to water. (Autoclassified according to the AwSV Regulations)

### 15.2 Chemical safety assessment.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16: OTHER INFORMATION.

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## KCS-LG-KCS Lime Green

**Version 1**      **Date of compilation: 11/03/2018**

**Version 5 (replaces version 4)**

**Revision date: 18/12/2020**

**Page 22 of 23**

**Print date: 02/03/2021**

Complete text of the H phrases that appear in section 3:

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful 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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.(órganos de audición)
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Classification codes:

Acute Tox. 4 : Acute toxicity (Dermal), Category 4  
Acute Tox. 4 : Acute toxicity (Inhalation), Category 4  
Acute Tox. 4 : Acute toxicity (Oral), Category 4  
Aquatic Acute 1 : Acute toxicity to the aquatic environment, Category 1  
Aquatic Chronic 1 : Chronic effect to the aquatic environment, Category 1  
Aquatic Chronic 2 : Chronic effect to the aquatic environment, Category 2  
Asp. Tox. 1 : Aspiration toxicity, Category 1  
Eye Dam. 1 : Serious eye damage, Category 1  
Eye Irrit. 2 : Eye irritation, Category 2  
Flam. Liq. 2 : Flammable liquid, Category 2  
Flam. Liq. 3 : Flammable liquid, Category 3  
Repr. 2 : Reproductive toxicant, Category 2  
STOT RE 2 : Specific target organ toxicity following a repeated exposure, Category 2  
STOT SE 3 : Specific target organ toxicity following a single exposure, Category 3  
Skin Irrit. 2 : Skin irritant, Category 2  
Skin Sens. 1 : Skin sensitiser, Category 1

Changes regarding to the previous version:

- Change in the hazard classification (SECTION 2.1).
- Removal of precautionary statements/hazard statements/pictograms/signal word (SECTION 2.2).
- Addition of precautionary statements/hazard statements/pictograms/signal word (SECTION 2.2).
- Changes in the composition of the product (SECTION 3.2).
- Changes in the composition of the product (SECTION 3.2).
- Modifications in the handling and storage precautions (SECTION 7.1).
- Modifications in the handling and storage precautions (SECTION 7.2).
- Elimination of exposure data (SECTION 8.1).
- Addition of exposure data (SECTION 8.1).
- Modifications of the personal protective equipment (SECTION 8.2).
- Modification in the values of the physical and chemical properties (SECTION 9).
- Modification of the information of the stability and reactivity conditions (SECTION 10.1).
- Modification of the information of the stability and reactivity conditions (SECTION 10.2).
- Modification of the information of the stability and reactivity conditions (SECTION 10.3).
- Modification of the information of the stability and reactivity conditions (SECTION 10.4).
- Modification of the information of the stability and reactivity conditions (SECTION 10.5).
- Modification of the information of the stability and reactivity conditions (SECTION 10.6).
- Elimination of toxicity values (SECTION 11.1).

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## KCS-LG-KCS Lime Green

**Version 1**      **Date of compilation: 11/03/2018**

**Version 5 (replaces version 4)**

**Revision date: 18/12/2020**

**Page 23 of 23**

**Print date: 02/03/2021**

- Change in the hazard classification (SECTION 11.1).
- Elimination of ecological information values (SECTION 12.1).
- Elimination of ecological information values (SECTION 12.3).
- Addition of ecological information values (SECTION 12.3).
- Modification of the classification ADR/IMDG/ICAO/IATA/RID (SECTION 14).
- National legislative changes (SECTION 15.1).

### **Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

Physical hazards	On basis of test data
Health hazards	Calculation method
Environmental hazards	Calculation method

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

#### Abbreviations and acronyms used:

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
AwSV:	Facility Regulations for handling substances that are hazardous for the water.
BCF:	Bioconcentration factor.
CEN:	European Committee for Standardization.
DMEL:	Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.
DNEL:	Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
EC50:	Half maximal effective concentration.
PPE:	Personal protection equipment.
IATA:	International Air Transport Association.
ICAO:	International Civil Aviation Organization.
IMDG:	International Maritime Code for Dangerous Goods.
LC50:	Lethal concentration, 50%.
LD50:	Lethal dose, 50%.
Log Pow:	Logarithm of the partition octanol-water.
NOEC:	No observed effect concentration.
PNEC:	Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail.
WGK:	Water hazard classes.

#### Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2015/830.

Regulation (EC) No 1907/2006.

Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.