

2K 2 in 1 Headlight Clear

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Issue date: 12/16/2020

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Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : 2K 2 in 1 Headlight Clear
Product code : 3684068 / REZ1163

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

Use of the substance/mixture : Automotive refinish

1.3. Details of the supplier of the safety data sheet

Manufacturer

Peter Kwasny GmbH
96 Heibronner Str.
Gundelsheim, 74831 - Germany
T 49(0) 6269-95-20

Distributor

Peter Kwasny Inc
62-64 Enter Lane
Islandia, NY 11749
T 1-844-726-6330 (toll free North America)

Distributor

Peter Kwasny Spraypaint Canada Inc
2275 Lake Shore Boulevard West, Suite 530
Toronto, ON M8V 3Y3

1.4. Emergency telephone number

Emergency number : 352-323-3500 (24h / 7 days a week)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

GHS classification

Flam. Aerosol 1
Press. Gas (Liq.)
Skin Sens. 1
Carc. 2
Repr. 2
STOT SE 3
Simple Asphy

2.2. Label elements

GHS labelling

Hazard pictograms (GHS) :



GHS02

GHS04

GHS07

GHS08

Signal word (GHS) :

Danger

Hazard statements (GHS) :

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May cause an allergic skin reaction. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May displace oxygen and cause rapid suffocation

Precautionary statements (GHS) :

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If exposed or concerned: Get medical advice/attention. If on skin: Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Dimethyl ether	(CAS-No.) 115-10-6	30 – 60
n-Butyl acetate	(CAS-No.) 123-86-4	10 – 30
Hexamethylene diisocyanate homopolymer	(CAS-No.) 28182-81-2	5 – 10
Xylenes (o-, m-, p- isomers)	(CAS-No.) 1330-20-7	1 – 5
2-Pentanone, 4-methyl-	(CAS-No.) 108-10-1	1 – 5
Isobutyl acetate	(CAS-No.) 110-19-0	1 – 5
Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl-, homopolymer	(CAS-No.) 53880-05-0	0.1 - 1
Ethylbenzene	(CAS-No.) 100-41-4	0.1 - 1
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	(CAS-No.) 41556-26-7	0.1 - 1

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: IF ON SKIN: Wash with plenty of Water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

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

Symptoms/effects after inhalation	: May cause irritation to the respiratory tract. May cause drowsiness or dizziness. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Symptoms of oxygen deficiency include respiratory difficulty, headache, dizziness, nausea, unconsciousness or death.
Symptoms/effects after skin contact	: May cause skin irritation. Repeated exposure may cause skin dryness or cracking. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic symptoms	: Suspected of causing cancer. Suspected of damaging fertility or the unborn child.

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

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Extremely flammable aerosol. Products of combustion may include, and are not limited to: oxides of carbon.
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Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Vapours may form explosive mixture with air.

5.3. Advice for firefighters

Firefighting instructions : Move containers away from the fire area if this can be done without risk. Cool closed containers exposed to fire with water spray.

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

Other information : Vapours may be heavier than air and may travel along the ground to a distant ignition source and flash back.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate every possible source of ignition. Use only non-sparking tools. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so. Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Do not pierce or burn, even after use. Keep away from sources of ignition - No smoking. Hazardous waste due to potential risk of explosion.

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with skin and eyes. Handle and open container with care. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow.

Hygiene measures : Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Do not expose to temperatures exceeding 50 °C/ 122 °F. Keep in fireproof place. Store away from direct sunlight or other heat sources. Store in a well-ventilated place. Store locked up.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available

Dimethyl ether (115-10-6)

No additional information available

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n-Butyl acetate (123-86-4)	
USA - ACGIH - Occupational Exposure Limits	
Local name	n-Butyl acetate
ACGIH TWA (ppm)	50 ppm (Butyl acetates, all isomers)
ACGIH STEL (ppm)	150 ppm (Butyl acetates, all isomers)
Remark (ACGIH)	TLV® Basis: Eye & URT irr
Regulatory reference	ACGIH 2020
USA - OSHA - Occupational Exposure Limits	
Local name	n-Butyl-acetate
OSHA PEL (TWA) (mg/m ³)	710 mg/m ³
OSHA PEL (TWA) (ppm)	150 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - IDLH - Occupational Exposure Limits	
US IDLH (ppm)	1700 ppm (10% LEL)
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA) (mg/m ³)	710 mg/m ³
NIOSH REL TWA [ppm]	150 ppm
NIOSH REL (STEL) (mg/m ³)	950 mg/m ³
NIOSH REL STEL [ppm]	200 ppm
Hexamethylene diisocyanate homopolymer (28182-81-2)	
No additional information available	
2-Pentanone, 4-methyl- (108-10-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (ppm)	20 ppm
ACGIH STEL (ppm)	75 ppm
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA - ACGIH - Biological Exposure Indices	
Biological Exposure Indices (BEI)	1 mg/l Parameter: MIBK - Medium: urine - Sampling time: end of shift
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) (mg/m ³)	410 mg/m ³
OSHA PEL (TWA) (ppm)	100 ppm
USA - IDLH - Occupational Exposure Limits	
US IDLH (ppm)	500 ppm
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA) (mg/m ³)	205 mg/m ³
NIOSH REL TWA [ppm]	50 ppm
NIOSH REL (STEL) (mg/m ³)	300 mg/m ³
NIOSH REL STEL [ppm]	75 ppm
Xylenes (o-, m-, p- isomers) (1330-20-7)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (ppm)	100 ppm
ACGIH STEL (ppm)	150 ppm
ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA - ACGIH - Biological Exposure Indices	
Biological Exposure Indices (BEI)	1.5 g/g creatinine Parameter: Methylhippuric acids - Medium: urine - Sampling time: end of shift
USA - OSHA - Occupational Exposure Limits	
Local name	Xylenes (o-, m-, p-isomers)
OSHA PEL (TWA) (mg/m ³)	435 mg/m ³
OSHA PEL (TWA) (ppm)	100 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl-, homopolymer (53880-05-0)	
No additional information available	

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Ethylbenzene (100-41-4)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (ppm)	20 ppm
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA - ACGIH - Biological Exposure Indices	
Biological Exposure Indices (BEI)	0.15 g/g creatinine Parameter: Sum of mandelic acid and phenylglyoxylic acid - Medium: urine - Sampling time: end of shift (nonspecific)
USA - OSHA - Occupational Exposure Limits	
Local name	Ethyl benzene
OSHA PEL (TWA) (mg/m ³)	435 mg/m ³
OSHA PEL (TWA) (ppm)	100 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1 OSHA Annotated Table Z-1
USA - IDLH - Occupational Exposure Limits	
US IDLH (ppm)	800 ppm (10% LEL)
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA) (mg/m ³)	435 mg/m ³
NIOSH REL TWA [ppm]	100 ppm
NIOSH REL (STEL) (mg/m ³)	545 mg/m ³
NIOSH REL STEL [ppm]	125 ppm
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
No additional information available	
Isobutyl acetate (110-19-0)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Isobutyl acetate
ACGIH TWA (ppm)	50 ppm (Butyl acetates, all isomers)
ACGIH STEL (ppm)	150 ppm (Butyl acetates, all isomers)
Remark (ACGIH)	TLV® Basis: Eye & URT irr
Regulatory reference	ACGIH 2020
USA - OSHA - Occupational Exposure Limits	
Local name	Isobutyl acetate
OSHA PEL (TWA) (mg/m ³)	700 mg/m ³
OSHA PEL (TWA) (ppm)	150 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1 OSHA Annotated Table Z-1
USA - IDLH - Occupational Exposure Limits	
US IDLH (ppm)	1300 ppm (10% LEL)
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA) (mg/m ³)	700 mg/m ³
NIOSH REL TWA [ppm]	150 ppm

8.2. Exposure controls

Appropriate engineering controls	: Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.
Hand protection	: Wear suitable gloves resistant to chemical penetration.
Eye protection	: Safety glasses or goggles are recommended when using product.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Avoid release to the environment.
Other information	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
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Appearance	: Aerosol.
Colour	: Clear
Odour	: Characteristic
Odour threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: Not applicable
Flash point	: < -18 °C (< -0.4 °F)
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Extremely flammable aerosol.
Vapour pressure	: No data available
Relative vapour density at 20 °C (68 °F)	: No data available
Relative density	: No data available
Density	: 0.81 g/cm ³
Solubility	: No data available
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

Gas group	: Press. Gas (Liq.)
Flame projection length	: < 100 cm (< 39.4")
Heat of combustion	: Not available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions. Extremely flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat. Incompatible materials. Sparks. Open flame. Direct sunlight. Overheating.

10.5. Incompatible materials

Strong oxidizing agents. Acids. Alkalis.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified.
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: Not classified.

Dimethyl ether (115-10-6)

LC50 inhalation rat	164000 ppm/4h
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ATE CA (Gases (except aerosol dispensers and lighters))	164000 ppmv/4h
n-Butyl acetate (123-86-4)	
LD50 oral rat	10768 mg/kg
LD50 dermal rabbit	> 17600 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	0.05 mg/l/4h
LC50 Inhalation - Rat (Vapours)	1.86 mg/l/4h
ATE CA (oral)	10768 mg/kg bodyweight
Hexamethylene diisocyanate homopolymer (28182-81-2)	
LC50 inhalation rat	18500 mg/m ³ (Exposure time: 1 h)
ATE CA (Gases (except aerosol dispensers and lighters))	4500 ppmv/4h
ATE CA (vapours)	18.5 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h
2-Pentanone, 4-methyl- (108-10-1)	
LD50 oral rat	2080 mg/kg
LD50 dermal rabbit	3000 mg/kg
LC50 inhalation rat	2000 – 4000 ppm/4h
ATE CA (oral)	2080 mg/kg bodyweight
ATE CA (Dermal)	3000 mg/kg bodyweight
ATE CA (Gases (except aerosol dispensers and lighters))	2000 ppmv/4h
ATE CA (vapours)	11 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h
Xylenes (o-, m-, p- isomers) (1330-20-7)	
LD50 oral rat	3500 mg/kg
LD50 dermal	1700 mg/kg
ATE CA (oral)	3500 mg/kg bodyweight
ATE CA (Dermal)	1700 mg/kg bodyweight
ATE CA (Gases (except aerosol dispensers and lighters))	4500 ppmv/4h
ATE CA (vapours)	11 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h
Ethylbenzene (100-41-4)	
LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	15400 mg/kg
LC50 inhalation rat	17.4 mg/l/4h
ATE CA (oral)	3500 mg/kg bodyweight
ATE CA (Dermal)	15400 mg/kg bodyweight
ATE CA (Gases (except aerosol dispensers and lighters))	4500 ppmv/4h
ATE CA (vapours)	17.4 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
LD50 oral rat	2615 mg/kg
ATE CA (oral)	2615 mg/kg bodyweight
Skin corrosion/irritation	: Not classified.
Serious eye damage/irritation	: Not classified.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Suspected of causing cancer.
2-Pentanone, 4-methyl- (108-10-1)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity

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2-Pentanone, 4-methyl- (108-10-1)

In OSHA Hazard Communication Carcinogen list	Yes
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Xylenes (o-, m-, p- isomers) (1330-20-7)

IARC group	3 - Not classifiable
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Ethylbenzene (100-41-4)

IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity : Suspected of damaging fertility or the unborn child.
 STOT-single exposure : May cause drowsiness or dizziness.

n-Butyl acetate (123-86-4)

STOT-single exposure	May cause drowsiness or dizziness.
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2-Pentanone, 4-methyl- (108-10-1)

STOT-single exposure	May cause respiratory irritation.
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Xylenes (o-, m-, p- isomers) (1330-20-7)

STOT-single exposure	May cause drowsiness or dizziness.
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STOT-repeated exposure : Not classified.

Xylenes (o-, m-, p- isomers) (1330-20-7)

LOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity)
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Ethylbenzene (100-41-4)

NOAEL (oral, rat, 90 days)	75 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified.

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Vaporizer	Aerosol
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Symptoms/effects after inhalation : May cause irritation to the respiratory tract. May cause drowsiness or dizziness. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Symptoms of oxygen deficiency include respiratory difficulty, headache, dizziness, nausea, unconsciousness or death.

Symptoms/effects after skin contact : May cause skin irritation. Repeated exposure may cause skin dryness or cracking. May cause an allergic skin reaction.

Symptoms/effects after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic symptoms : Suspected of causing cancer. Suspected of damaging fertility or the unborn child.

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

Dimethyl ether (115-10-6)

LC50 fish 1	> 4.1 g/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static])
EC50 Daphnia 1	> 4.4 g/l Test organisms (species): Daphnia magna

n-Butyl acetate (123-86-4)

LC50 fish 1	100 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 fish 2	17 – 19 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

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2-Pentanone, 4-methyl- (108-10-1)	
LC50 fish 1	505 mg/l
EC50 Daphnia 1	1250 mg/l
NOEC chronic fish	57 mg/l
NOEC chronic crustacea	7.8 mg/l

Xylenes (o-, m-, p- isomers) (1330-20-7)	
LC50 fish 1	13.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	3.82 mg/l (Exposure time: 48 h - Species: water flea)
LC50 fish 2	2.661 – 4.093 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 2	0.6 mg/l (Exposure time: 48 h - Species: Gammarus lacustris)
NOEC chronic fish	> 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'

Ethylbenzene (100-41-4)	
LC50 fish 1	11 – 18 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	1.8 – 2.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
LOEC (chronic)	1.7 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC (chronic)	0.96 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC chronic crustacea	0.956 mg/l

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
LC50 fish 1	0.97 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

Isobutyl acetate (110-19-0)	
LC50 fish 1	17 mg/l (Exposure time: 96 h - Species: Oryzias latipes)
NOEC chronic algae	23 mg/l

12.2. Persistence and degradability

2K 2 in 1 Headlight Clear	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

2K 2 in 1 Headlight Clear	
Bioaccumulative potential	Not established.

Dimethyl ether (115-10-6)	
Partition coefficient n-octanol/water	-0.18

n-Butyl acetate (123-86-4)	
Partition coefficient n-octanol/water	1.81 (at 23 °C)

2-Pentanone, 4-methyl- (108-10-1)	
Partition coefficient n-octanol/water	1.19

Xylenes (o-, m-, p- isomers) (1330-20-7)	
BCF fish 1	0.6 – 15
Partition coefficient n-octanol/water	2.77 – 3.15

Ethylbenzene (100-41-4)	
BCF fish 1	15
Partition coefficient n-octanol/water	3.2

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
Partition coefficient n-octanol/water	0.37 (at 25 °C)

Isobutyl acetate (110-19-0)	
BCF fish 1	(no significant bioconcentration)
Partition coefficient n-octanol/water	1.72

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : No other effects known.

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According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Container under pressure. Do not drill or burn even after use.
- Additional information : Flammable vapours may accumulate in the container.

SECTION 14: Transport information

Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)

In accordance with DOT/TDG

- UN-No.(DOT/TDG) : UN1950
- Proper Shipping Name (DOT/TDG) : Aerosols
- Class (DOT/TDG) : Class 2.1 - Flammable gas 49 CFR 173.115
- Hazard labels (DOT/TDG) :



SECTION 15: Regulatory information

15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

15.2. International regulations

No additional information available

15.3. US State regulations

- ⚠ WARNING:** This product can expose you to 2-Pentanone, 4-methyl-, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

- Revision date : 12/16/2020
- Other information : None.
- Prepared by : Nexreg Compliance Inc.
www.Nexreg.com



SDS HazCom 2012 - WHMIS 2015 (NexReg)

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