valspar

SAFETY DATA SHEET

1. Identification

Product identifier 2K QUICK SAND PRIMER ACTIVATOR

Other means of identification

Product Code MA-2K-QT

Recommended use Automotive Refinish Hardener/Activator

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name VALSPAR Automotive
Address 600 Nova Drive SE
Massillon, Ohio 44646

United States

Telephone General Assistance 330-299-8879

Website www.valsparauto.com
E-mail RON.ANDRUS@valspar.com

Contact person Ronald Andrus

Emergency phone number CHEMTREC 800-424-9300

2. Hazard(s) identification

Flammable liquids **Physical hazards** Category 2 **Health hazards** Acute toxicity, oral Category 4 Acute toxicity, inhalation Category 3 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Sensitization, respiratory Category 1 Sensitization, skin Category 1 Carcinogenicity Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated Category 1

exposure

Environmental hazards Hazardous to the aquatic environment, acute Category 2

Reproductive toxicity

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Dange

Hazard statement Highly flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. May cause an

allergic skin reaction. Causes serious eye irritation. Toxic if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Toxic to aquatic life with long

Category 2

Category 2

lasting effects.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.

Response

If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center/doctor. 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. Call a poison center/doctor. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

Disposal

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

Hazard(s) not otherwise classified (HNOC)

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

Supplemental information

47.52% of the mixture consists of component(s) of unknown acute oral toxicity. 68.25% of the mixture consists of component(s) of unknown acute inhalation toxicity. 52.35% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 52.35% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Toluene		108-88-3	26.94
1-Methoxy-2-propyl acetate		108-65-6	22.1
homopolymer of HDI		28182-81-2	11.04
n-butyl acetate		123-86-4	10.63
Xylene		1330-20-7	6.85
ethyl acetate		141-78-6	4.83
Ethyl benzene		100-41-4	2.98
Cumene		98-82-8	0.1
2,4-toluene diisocyanate		584-84-9	0.08
1,6-Diisocyanatohexane		822-06-0	0.06
2,6-toluene diisocyanate		91-08-7	0.02
benzene		71-43-2	0.001
Other components below reportable	e levels		14.380003

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions. Wash

contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

General information

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Water fog. Alcohol resistant foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media

Water. Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods
General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

Highly flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all

environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Occupational exposure limits

Components	Туре	Value	
benzene (CAS 71-43-2)	STEL	5 ppm	
	TWA	1 ppm	
US. OSHA Table Z-1 Limits for Ai	r Contaminants (29 CFR 1910.1	000)	
Components	Туре	Value	
2,4-toluene diisocyanate (CAS 584-84-9)	Ceiling	0.14 mg/m3	
,		0.02 ppm	
Cumene (CAS 98-82-8)	PEL	245 mg/m3	
		50 ppm	
ethyl acetate (CAS 141-78-6)	PEL	1400 mg/m3	
•		400 ppm	
Ethyl benzene (CAS 100-41-4)	PEL	435 mg/m3	
•		100 ppm	
n-butyl acetate (CAS 123-86-4)	PEL	710 mg/m3	
•		150 ppm	
Xylene (CAS 1330-20-7)	PEL	435 mg/m3	
		100 ppm	
US. OSHA Table Z-2 (29 CFR 191	0.1000)		
Components	Туре	Value	
benzene (CAS 71-43-2)	Ceiling	25 ppm	
	TWA	10 ppm	
Toluene (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	

US. ACGIH Threshold Lin Components	Type		Va	lue
1,6-Diisocyanatohexane (CAS 822-06-0)	TWA		0.0	05 ppm
2,4-toluene diisocyanate (CAS 584-84-9)	STEL		0.0	2 ppm
,	TWA		0.0	05 ppm
2,6-toluene diisocyanate (CAS 91-08-7)	STEL			2 ppm
(8/18/31/38/1)	TWA		0.0	05 ppm
benzene (CAS 71-43-2)	STEL			5 ppm
201120110 (0710 7 1 10 2)	TWA			5 ppm
Cumene (CAS 98-82-8)	TWA			ppm
ethyl acetate (CAS 141-78-6)	TWA			D ppm
Ethyl benzene (CAS 100-41-4)	TWA		20	ppm
n-butyl acetate (CAS 123-86-4)	STEL		200	O ppm
120 00 4)	TWA		15/	0 ppm
Toluene (CAS 108-88-3)	TWA			ppm
Xylene (CAS 1330-20-7)	STEL			D ppm
Aylono (OAO 1000-20-1)	TWA			o ppm
			100	ν μριτι
US. NIOSH: Pocket Guide Components	e to Chemical Hazards Type		Va	lue
1,6-Diisocyanatohexane (CAS 822-06-0)	Ceilin	g	0.1	4 mg/m3
(6,18,622,66,6)			0.0	2 ppm
	TWA			35 mg/m3
				105 ppm
benzene (CAS 71-43-2)	STEL			ppm
benzene (OAO 71-40-2)	TWA			ppm
Cumana (CAC 00 02 0)				
Cumene (CAS 98-82-8)	TWA			5 mg/m3
-41-1 (040	T)4/4			ppm
ethyl acetate (CAS 141-78-6)	TWA		140	00 mg/m3
			40	0 ppm
Ethyl benzene (CAS 100-41-4)	STEL		54	5 mg/m3
,			12	5 ppm
	TWA			5 mg/m3
				O ppm
n-butyl acetate (CAS 123-86-4)	STEL			0 mg/m3
123-00-4)			200	O ppm
	TWA			о ррт 0 mg/m3
	IVVA			o mg/ms O ppm
Taluana (CAS 100 00 0)	OTE			The state of the s
Toluene (CAS 108-88-3)	STEL			0 mg/m3
	T\ ^ \ ^			0 ppm
	TWA			5 mg/m3
			100	0 ppm
US. Workplace Environm Components	nental Exposure Level (V Type	-	Va	lue
1-Methoxy-2-propyl acetat (CAS 108-65-6)	e TWA		50	ррт
,				
·				
ogical limit values ACGIH Biological Expos		Determinant	Specimen	Sampling Time
ogical limit values	ure Indices Value 25 µg/g	Determinant S-Phenylmerca	Specimen Creatinine in	Sampling Time

ACGIH Biological Expos Components	ure Indices Value	Determinant	Specimen	Sampling Time	
Ethyl benzene (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*	
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*	
	0.03 mg/l	Toluene	Urine	*	
	0.02 mg/l	Toluene	Blood	*	
Xylene (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*	

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

1-Methoxy-2-propyl acetate (CAS 108-65-6)

benzene (CAS 71-43-2)

Cumene (CAS 98-82-8)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Cumene (CAS 98-82-8) Skin designation applies. Toluene (CAS 108-88-3) Skin designation applies.

US - Tennessee OELs: Skin designation

Cumene (CAS 98-82-8)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

benzene (CAS 71-43-2)

Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Cumene (CAS 98-82-8)

Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Cumene (CAS 98-82-8)

Can be absorbed through the skin.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other Wear appropriate chemical resistant clothing.

Respiratory protection Wear positive pressure self-contained breathing apparatus (SCBA).

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical state Liquid. Form Liquid.

Color Light yellow to dark yellow.

Odor Solvent.

Odor threshold Not available. pH Not available.

Melting point/freezing point -138.82 °F (-94.9 °C) estimated Initial boiling point and boiling 231.08 °F (110.6 °C) estimated

range

Flash point 40.0 °F (4.4 °C) estimated

Evaporation rate Not available.
Flammability (solid, gas) Not applicable.
Upper/lower flammability or explosive limits

Flammability limit - lower

1.3 % estimated

(%)

Flammability limit - upper

7.5 % estimated

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 20.62 hPa estimated

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 797 °F (425 °C) estimated

Decomposition temperature Not available. **Viscosity** Not available.

Other information

Density 8.08 lbs/gal **Explosive properties** Not explosive.

Flammability class Flammable IB estimated

Oxidizing properties Not oxidizing.

Percent volatile 74.43 %

Specific gravity 0.97

VOC 6 lbs/gal Regulatory

6 lbs/gal Material 721 g/l Regulatory 721 g/l Material

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials Strong acids. Strong oxidizing agents. Nitrates. Halogens.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation Toxic if inhaled. May cause damage to organs through prolonged or repeated exposure by

inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting. May cause allergy

or asthma symptoms or breathing difficulties if inhaled.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

Ingestion Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity Toxic if inhaled. Harmful if swallowed. Narcotic effects. May cause an allergic skin reaction.

Components Species Test Results 1,6-Diisocyanatohexane (CAS 822-06-0) Acute Dermal LD50 Rabbit 593 mg/kg Inhalation
Acute Dermal LD50 Rabbit 593 mg/kg
Dermal LD50 Rabbit 593 mg/kg
LD50 Rabbit 593 mg/kg
Inhalation
LC50 Mouse 0.03 mg/l, 2 Hours
Rat 40 mg/l, 1 Hours
22 mg/l, 4 Hours
0.385 mg/l, 6 Hours
Oral
LD50 Mouse 1980 mg/kg
Rat 960 mg/kg
2,4-toluene diisocyanate (CAS 584-84-9)
Acute
Inhalation LC50 Guinea pig 13 mg/l, 4 Hours
Mouse 10 mg/l, 4 Hours
-
G
Rat 14 mg/l, 4 Hours
Oral LD50 Rat 5800 mg/kg
2,6-toluene diisocyanate (CAS 91-08-7) Acute
Inhalation
LC50 Guinea pig 90.4 mg/l, 4 Hours
Mouse 69.1 mg/l, 4 Hours
Rabbit 0.0783 mg/l, 4 Hours
Rat 0.3489 mg/l, 4 Hours
0.057 mg/l, 1 Hours
Oral
LD50 Mouse 1950 mg/kg
Rat 3060 mg/kg
benzene (CAS 71-43-2)
Acute
Inhalation
LC50 Mouse 9980 ppm
Rat 10000 ppm, 7 Hours
Oral
LD50 Mouse 4700 mg/kg
Rat 3306 mg/kg

Material name: 2K QUICK SAND PRIMER ACTIVATOR MA-2K-QT Version #: 01 Issue date: 12-07-2015

Components	Species	Test Results
Cumene (CAS 98-82-8)		
<u>Acute</u>		
Inhalation	Maura	2000 7.11
LC50	Mouse	2000 ppm, 7 Hours
		24.7 mg/l, 2 Hours
	Rat	8000 ppm, 4 Hours
Oral	D-4	4400
LD50	Rat	1400 mg/kg
ethyl acetate (CAS 141-78-6)		
<u>Acute</u> Inhalation		
LC50	Rat	16000 ppm, 6 Hours
LD50	Mouse	1500 ppm, 4 Hours
LD30		
	Rabbit	2500 ppm, 4 Hours
	Rat	4000 ppm, 4 Hours
Oral	Mouse	0.44 alka
LD50	Mouse	0.44 g/kg
	Rabbit	4.9 g/kg
	Rat	11.3 ml/kg
		5.6 g/kg
Ethyl benzene (CAS 100-41-4))	
<u>Acute</u>		
Dermal	D 11 %	47000 #
LD50	Rabbit	17800 mg/kg
Oral	D.1	0500 //
LD50	Rat .	3500 mg/kg
n-butyl acetate (CAS 123-86-4)	
<u>Acute</u> Inhalation		
LC50	Wistar rat	160 mg/l, 4 Hours
Oral	vvistai rat	100 mg/l, 4 mould
LD50	Rat	14000 mg/kg
Toluene (CAS 108-88-3)	rat	14000 mg/kg
Acute		
<u> Dermal</u>		
LD50	Rabbit	12124 mg/kg
		14.1 ml/kg
Inhalation		J
LC50	Mouse	5320 ppm, 8 Hours
		400 ppm, 24 Hours
	Rat	26700 ppm, 1 Hours
	rat	12200 ppm, 2 Hours
01		8000 ppm, 4 Hours
Oral	Rat	26 alka
LD50	Γαι	2.6 g/kg
Xylene (CAS 1330-20-7)		
<u>Acute</u> Dermal		
LD50	Rabbit	> 43 g/kg

Components	Species	Test Results	
Inhalation			_
LC50	Mouse	3907 mg/l, 6 Hours	
	Rat	6350 mg/l, 4 Hours	
Oral			
LD50	Mouse	1590 mg/kg	
	Rat	3523 - 8600 mg/kg	

^{*} Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

ACGIH sensitization

2,4-toluene diisocyanate (CAS 584-84-9) Sensitizer. 2,6-toluene diisocyanate (CAS 91-08-7) Sensitizer.

Respiratory sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

2,4-toluene diisocyanate (CAS 584-84-9)2B Possibly carcinogenic to humans.2,6-toluene diisocyanate (CAS 91-08-7)2B Possibly carcinogenic to humans.

benzene (CAS 71-43-2) 1 Carcinogenic to humans.

Cumene (CAS 98-82-8)

Ethyl benzene (CAS 100-41-4)

2B Possibly carcinogenic to humans.

2B Possibly carcinogenic to humans.

Toluene (CAS 108-88-3) 3 Not classifiable as to carcinogenicity to humans. Xylene (CAS 1330-20-7) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

benzene (CAS 71-43-2) Cancer

US. National Toxicology Program (NTP) Report on Carcinogens

2,4-toluene diisocyanate (CAS 584-84-9)

Reasonably Anticipated to be a Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

benzene (CAS 71-43-2) Known To Be Human Carcinogen.

Cumene (CAS 98-82-8) Reasonably Anticipated to be a Human Carcinogen.

Reproductive toxicity Components in this product have been shown to cause birth defects and reproductive disorders in

laboratory animals. Suspected of damaging fertility or the unborn child.

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard Not an aspiration hazard.

Chronic effects Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be

harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Components		Species	Test Results
2,4-toluene diisocyana	te (CAS 584-84-9)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales prom	nelas) 108.8 - 240.4 mg/l, 96 hours
benzene (CAS 71-43-2	?)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	8.76 - 15.6 ma/l. 48 hours

Components		Species	Test Results
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	7.2 - 11.7 mg/l, 96 hours
Cumene (CAS 98-82-8))		
Aquatic			
Crustacea	EC50	Brine shrimp (Artemia sp.)	3.55 - 11.29 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.7 mg/l, 96 hours
ethyl acetate (CAS 141-	-78-6)		
Aquatic			
Fish	LC50	Indian catfish (Heteropneustes fossilis)	200.32 - 225.42 mg/l, 96 hours
Ethyl benzene (CAS 10	0-41-4)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.37 - 4.4 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	7.5 - 11 mg/l, 96 hours
n-butyl acetate (CAS 12	23-86-4)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	17 - 19 mg/l, 96 hours
Toluene (CAS 108-88-3	3)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	8.11 mg/l, 96 hours
Xylene (CAS 1330-20-7	')		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	7.711 - 9.591 mg/l, 96 hours

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Ko	ow)	ι Κον	(loa	water	tanol /	n-o	cient	coeffic	artition	P
---	-----	-------	------	-------	---------	-----	-------	---------	----------	---

benzene	2.13
Cumene	3.66
ethyl acetate	0.73
Ethyl benzene	3.15
n-butyl acetate	1.78
Toluene	2.73
Xylene	3.12 - 3.2

Mobility in soil No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste codeThe waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

UN1263 **UN** number

UN proper shipping name Paint, Paint Related Material

Transport hazard class(es)

Class 3 Subsidiary risk 3 Label(s) П Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. **Special provisions**

IB2, T7, TP1, TP8, TP28

150 Packaging exceptions Packaging non bulk 202 Packaging bulk 242

IATA

UN1263 **UN** number

UN proper shipping name Paint, Paint Related Material

Transport hazard class(es)

Class 3 Subsidiary risk Ш Packing group **Environmental hazards** Yes **ERG Code** 3H

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

IMDG

UN number UN1263

UN proper shipping name Paint, Paint Related Material, MARINE POLLUTANT

Not established.

Transport hazard class(es)

Class 3 Subsidiary risk Ш **Packing group Environmental hazards**

Yes Marine pollutant

F-E, S-E Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

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

the IBC Code

DOT



Material name: 2K QUICK SAND PRIMER ACTIVATOR MA-2K-QT Version #: 01 Issue date: 12-07-2015

IATA; IMDG



Marine pollutant



General information

IMDG Regulated Marine Pollutant.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

2,4-toluene diisocyanate (CAS 584-84-9)
2,6-toluene diisocyanate (CAS 91-08-7)
0.1 % One-Time Export Notification only.
0.1 % One-Time Export Notification only.

TSCA Chemical Action Plans, Chemicals of Concern

2,4-toluene diisocyanate (CAS 584-84-9)

Toluene Diisocyanate (TDI) And Related Compounds Action Plan

[RIN 2070-ZA14]

2,6-toluene diisocyanate (CAS 91-08-7)

Toluene Diisocyanate (TDI) And Related Compounds Action Plan

[RIN 2070-ZA14]

CERCLA Hazardous Substance List (40 CFR 302.4)

1,6-Diisocyanatohexane (CAS 822-06-0) Listed. 2,4-toluene diisocyanate (CAS 584-84-9) Listed. 2,6-toluene diisocyanate (CAS 91-08-7) Listed. benzene (CAS 71-43-2) Listed. Cumene (CAS 98-82-8) Listed. Listed. ethyl acetate (CAS 141-78-6) Ethyl benzene (CAS 100-41-4) Listed. n-butyl acetate (CAS 123-86-4) Listed. Toluene (CAS 108-88-3) Listed. Xylene (CAS 1330-20-7) Listed.

SARA 304 Emergency release notification

2,4-toluene diisocyanate (CAS 584-84-9) 100 LBS 2,6-toluene diisocyanate (CAS 91-08-7) 100 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

benzene (CAS 71-43-2) Cancer

Central nervous system

Blood Aspiration Skin Eve

respiratory tract irritation

Flammability

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
2,4-toluene diisocyanate	584-84-9	100	500 lbs		
2,6-toluene diisocyanate	91-08-7	100	100 lbs		
CADA 211/212 Hozo	rdous No				

SARA 311/312 Hazardous N

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Toluene	108-88-3	26.94	
Xylene	1330-20-7	6.85	
Ethyl benzene	100-41-4	2.98	

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

1,6-Diisocyanatohexane (CAS 822-06-0)

2,4-toluene diisocyanate (CAS 584-84-9)

benzene (CAS 71-43-2)

Cumene (CAS 98-82-8)

Ethyl benzene (CAS 100-41-4)

Toluene (CAS 108-88-3)

Xylene (CAS 1330-20-7)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

2,4-toluene diisocyanate (CAS 584-84-9)

2,6-toluene diisocyanate (CAS 91-08-7)

Safe Drinking Water Act

(SDWA)

Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Toluene (CAS 108-88-3) 6594

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Toluene (CAS 108-88-3) 35 %WV

DEA Exempt Chemical Mixtures Code Number

Toluene (CAS 108-88-3) 594

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

ethyl acetate (CAS 141-78-6) Low priority n-butyl acetate (CAS 123-86-4) Low priority

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

1,6-Diisocyanatohexane (CAS 822-06-0)

2.4-toluene diisocvanate (CAS 584-84-9)

2,6-toluene diisocyanate (CAS 91-08-7)

benzene (CAS 71-43-2)

Cumene (CAS 98-82-8)

Ethyl benzene (CAS 100-41-4)

Toluene (CAS 108-88-3)

Xylene (CAS 1330-20-7)

US. Massachusetts RTK - Substance List

1,6-Diisocyanatohexane (CAS 822-06-0)

2,4-toluene diisocyanate (CAS 584-84-9)

2,6-toluene diisocyanate (CAS 91-08-7)

benzene (CAS 71-43-2)

Cumene (CAS 98-82-8)

ethyl acetate (CAS 141-78-6)

Ethyl benzene (CAS 100-41-4)

n-butyl acetate (CAS 123-86-4)

Toluene (CAS 108-88-3)

Xylene (CAS 1330-20-7)

US. New Jersey Worker and Community Right-to-Know Act

1,6-Diisocyanatohexane (CAS 822-06-0)

2,4-toluene diisocyanate (CAS 584-84-9)

2,6-toluene diisocyanate (CAS 91-08-7)

benzene (CAS 71-43-2)

Cumene (CAS 98-82-8)

ethyl acetate (CAS 141-78-6)

Ethyl benzene (CAS 100-41-4)

n-butyl acetate (CAS 123-86-4)

Toluene (CAS 108-88-3)

Xylene (CAS 1330-20-7)

US. Pennsylvania Worker and Community Right-to-Know Law

2,4-toluene diisocyanate (CAS 584-84-9)

2,6-toluene diisocyanate (CAS 91-08-7)

benzene (CAS 71-43-2)

Cumene (CAS 98-82-8)

ethyl acetate (CAS 141-78-6)

Ethyl benzene (CAS 100-41-4)

n-butyl acetate (CAS 123-86-4)

Toluene (CAS 108-88-3)

Xylene (CAS 1330-20-7)

US. Rhode Island RTK

1,6-Diisocyanatohexane (CAS 822-06-0)

2,4-toluene diisocyanate (CAS 584-84-9)

2,6-toluene diisocyanate (CAS 91-08-7)

benzene (CAS 71-43-2)

Cumene (CAS 98-82-8)

ethyl acetate (CAS 141-78-6)

Ethyl benzene (CAS 100-41-4)

n-butyl acetate (CAS 123-86-4)

Toluene (CAS 108-88-3)

Xylene (CAS 1330-20-7)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

2,4-toluene diisocyanate (CAS 584-84-9)
2,6-toluene diisocyanate (CAS 91-08-7)
benzene (CAS 71-43-2)
Cumene (CAS 98-82-8)
Ethyl benzene (CAS 100-41-4)
Listed: October 1, 1989
Listed: October 1, 1989
Listed: February 27, 1987
Listed: April 6, 2010
Listed: June 11, 2004

US - California Proposition 65 - CRT: Listed date/Developmental toxin

benzene (CAS 71-43-2)

Toluene (CAS 108-88-3)

Listed: December 26, 1997

Listed: January 1, 1991

Collifornia Proposition 65 CPT: Listed data/Female reproductive toxin

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

International Inventories

Country(s) or regionInventory nameOn inventory (yes/no)*AustraliaAustralian Inventory of Chemical Substances (AICS)No

Listed: August 7, 2009

Listed: December 26, 1997

Canada Domestic Substances List (DSL) No

Toluene (CAS 108-88-3)

benzene (CAS 71-43-2)

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No

EuropeEuropean List of Notified Chemical Substances (ELINCS)NoJapanInventory of Existing and New Chemical Substances (ENCS)NoKoreaExisting Chemicals List (ECL)NoNew ZealandNew Zealand InventoryNo

Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

16. Other information, including date of preparation or last revision

Issue date 12-07-2015

Version # 01

Philippines

HMIS® ratings Health: 3*

Flammability: 3

Physical hazard: 0

NFPA ratings Health: 3

Flammability: 3 Instability: 0

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material will infringe any such patents, and for obtaining any required licenses.

Revision information Product and Company Identification: Product and Company Identification

Composition/information on ingredients: Composition comments Composition/information on ingredients: Component information

Fire-fighting measures: Suitable extinguishing media

Exposure controls/personal protection: General hygiene considerations

Physical & Chemical Properties: Multiple Properties Physical and chemical properties: Oxidizing properties Physical and chemical properties: Explosive properties Ecological information: Persistence / degradability Regulatory information: US federal regulations

Other information, including date of preparation or last revision: Further information

No

No

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).