

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: C521 Yellow 50/50 Prediluted Antifreeze & Coolant
.2. Relevant identified uses of the	substance or mixture and uses advised against
Jse of the substance/mixture	: Antifreeze & Coolant
1.3. Details of the supplier of the sa	fety data sheet
Old World Industries, LLC 4065 Commercial Ave. Northbrook, IL 60062 - USA T (847) 559-2000 <u>www.oldworldind.com</u>	
1.4. Emergency telephone number	
Emergency number	: (800) 424-9300; (703) 527 3887 (International) Chemtrec
SECTION 2: Hazards identificatio	
2.1. Classification of the substance	or mixture
GHS-US classification	
Acute Tox. 4 (Oral) H302 Repr. 2 H361 STOT RE 2 H373	
Full text of H statements : see section 16	
r un text of 11 statements . see section 10	
2.2. Label elements	
•	
•	
•	: GHS07 GHS08
Hazard pictograms (GHS-US) Signal word (GHS-US)	: Warning
GHS-US labelling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	
Hazard pictograms (GHS-US) Signal word (GHS-US)	 Warning H302 - Harmful if swallowed H361 - Suspected of damaging fertility or the unborn child

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. **Mixture Product identifier** % by wt **GHS-US** classification Name <= 50 Acute Tox. 4 (Oral), H302 ethylene glycol (CAS No) 107-21-1 (CAS No) 7732-18-5 water < 50 Not classified (CAS No) 111-46-6 Acute Tox. 4 (Oral), H302 diethylene glycol < 3 STOT RE 2, H373 (CAS No) 16518-26-6 Repr. 2, H361 potassium p-tert-butylbenzoate < 2 denatonium benzoate (CAS No) 3734-33-6 30 - 50 ppm Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek immediate medical advice. Allow the victim to rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
First-aid measures after skin contact	: Remove contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Rinse immediately with plenty of water (for at least 15 minutes). Get medical advice/attention. Specific treatment (see supplemental first aid instructions on this label).
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water for 15 minutes, lifting lower and upper lids. If eye irritation persists: Rinse immediately with plenty of water. Get medical advice/attention.
First-aid measures after ingestion	: Obtain emergency medical attention. Rinse mouth. If the person is fully conscious, make him/her drink two glasses of water. Never give an unconscious person anything to drink. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. If medical advice is delayed, and if the person has swallowed a moderate volume of material (a few ounces), then give three to four ounces of hard liquor, such as whiskey. For children, give proportionally less liquor, according to weight.
4.2. Most important symptoms and effect	s, both acute and delayed
Symptoms/injuries	: Causes damage to organs (kidneys) Oral. Suspected of damaging fertility or the unborn child.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. The lethal dose in humans is estimated to be 100 mL (3 oz).

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

A more effective intravenous antidote for physician uses is 4-methylpyrazaole, a potent inhibitor of alcohol dehydrogenases, which effectively blocks the formation of toxic metabolites of ethylene glycol. It has been used to decrease the metabolic consequences of ethylene glycol poisoning before metabolic acidosis coma, seizures, and renal failure have occured.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Foam. Carbon dioxide. Sand. Water fog. Fine water spray. Alcohol-resistant foam. Dry chemical powder.	
Unsuitable extinguishing media	: Do not use a heavy water stream. May spread fire.	
5.2. Special hazards arising from the substance or mixture		
Fire hazard	: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include are not limited to: Carbon monoxide. Carbon dioxide.	
Reactivity	: No dangerous reactions known under normal conditions of use.	
5.3. Advice for firefighters		
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.	
02/08/2016	EN (English)	2/9

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Special protective equipment for fire fighters : Wear positive pressure self-contained breathing apparatus (SCBA). Protective fire fighting clothing (includes fire-fighting helmet, coat, pants, boots and gloves).

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel		
Emergency procedures	: Evacuate unnecessary personnel.	
6.1.2. For emergency responders		
Protective equipment	: Equip cleanup crew with proper protection. Refer to section 8.2.	
Emergency procedures	: Ventilate area.	
6.2. Environmental precautions		
Prevent entry to sewers and public waters. Noti	fy authorities if liquid enters sewers or public waters.	
6.3. Methods and material for containm	ent and cleaning up	
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.	
6.4. Reference to other sections		
See Heading 8. Exposure controls and persona	I protection.	
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	 Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. 	
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after handling.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage conditions	 Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep container closed when not in use. Product may become solid at temperatures below -37 °C (-34 °F). Do not store near food, foodstuffs, drugs or potable water supplies. Do not cut, drill, weld, use a blowtorch on, etc. containers even when empty. 	
Incompatible products	: Keep away from strong acids, strong bases and oxidizing agents.	

- Incompatible materials : Sources of ignition.
- 7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ethylene glycol (107-21-1)		
ACGIH	ACGIH TWA (mg/m³)	10 mg/m³
ACGIH	Remark (ACGIH)	Upper Respiratory Tract (URT) & Eye irritant
OSHA	Not applicable	

8.2. Exposure controls

Personal protective equipment

: Avoid all unnecessary exposure. Gloves. Safety glasses.



- Hand protection
- Eye protection
- Eye protection
- Respiratory protection Other information

- : Wear protective gloves.
- : Chemical goggles or safety glasses.
- : If exposed to levels above exposure limits wear appropriate respiratory protection.
- : Do not eat, drink or smoke during use.

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ccording to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations			
SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and c	hemical properties		
Physical state	: Liquid		
Color	: Yellow		
Odor	: Mild		
Odor threshold	: No data available		
рН	: 8.6		
Relative evaporation rate (butylacetate=1)	: Nil		
Freezing point	: -37 °C (-34 °F)		
Boiling point	: 107 °C (224 °F)		
Flash point	: 116 °C (241 °F) [100% Ethylene Glycol] ASTM D56		
Auto-ignition temperature	: 400 °C (752 °F) [100% Ethylene Glycol] Literature		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapor pressure	: < 0.1 mm Hg @ 20 ℃		
Relative vapor density at 20 °C	: No data available		
Specific Gravity	: 1.07		
Density	: 1.07 kg/l (8.9 lbs/gal)		
Solubility	: Water: Complete		
Log Pow	: No data available		
Log Kow	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties	: Not applicable.		
Oxidizing properties	: Not applicable.		
Explosive limits	: Not applicable.		
9.2. Other information			
VOC content	: 0.00		
SECTION 40. Stability and recetivity			
SECTION 10: Stability and reactivity			
10.1. Reactivity			
No dangerous reactions known under normal co	nditions of use.		
10.2. Chemical stability			
Stable.	Stable.		
10.3. Possibility of hazardous reactions			
Hazardous polymerization will not occur.			
10.4. Conditions to avoid			
Extremely high or low temperatures. Keep away from any flames or sparking source.			
10.5. Incompatible materials			
Keep away from strong acids, strong bases and oxidizing agents.			
10.6. Hazardous decomposition products Carbon diavida. Carbon monovida. Fumo, alcohola, Aldohudas, Ethers			
Carbon dioxide. Carbon monoxide. Fume. alcohols. Aldehydes. Ethers.			
SECTION 11: Toxicological information			
11.1. Information on toxicological effects			
Acute toxicity	: Oral: Harmful if swallowed.		
denatonium benzoate (3734-33-6)			
LD50 oral rat	584.00 mg/kg (Rat; Literature study)		
LD50 dermal rabbit	> 2,000.00 mg/kg (Rabbit; Literature study)		

ATE US (oral)

584.00 mg/kg bodyweight

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ethylene glycol (107-21-1)	
LD50 oral rat	> 5,000.00 mg/kg (Rat; Literature study)
ATE US (oral)	500.00 mg/kg bodyweight
diethylene glycol (111-46-6)	
LD50 dermal rabbit	11,890.00 mg/kg (Rabbit)
ATE US (oral)	500.00 mg/kg bodyweight
ATE US (dermal)	11,890.00 mg/kg bodyweight
Skin corrosion/irritation	: Not classified
	рН: 8.60
Serious eye damage/irritation	: Not classified
	pH: 8.60
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral). Causes damage to organs through prolonged or repeated exposure
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met. Harmful if swallowed.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. The lethal dose in humans is estimated to be 100 mL (3 oz).

SECTION 12: Ecological information

12. 1	I. –	Tox	icity

denatonium benzoate (3734-33-6)		
LC50 fish 1	> 1,000.00 mg/l (LC50; 96 h; Salmo gairdneri)	
EC50 Daphnia 1	13.00 mg/l (EC50; 48 h; Daphnia magna)	
ethylene glycol (107-21-1)		
EC50 Daphnia 1	> 10,000.00 mg/l (EC50; 24 h)	
LC50 fish 2	40,761.00 mg/l (LC50; 96 h; Salmo gairdneri)	
diethylene glycol (111-46-6)		
LC50 fish 1	> 5,000.00 mg/l (LC50; 24 h)	
EC50 Daphnia 1	> 10,000.00 mg/l (EC50; 24 h)	

12.2. Persistence and degradability

denatonium benzoate (3734-33-6)	
Persistence and degradability	Biodegradability in water: no data available. No (test) data on mobility of the substance available.
ethylene glycol (107-21-1)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.
Biochemical oxygen demand (BOD)	0.47 g O ₂ /g substance
Chemical oxygen demand (COD)	1.24 g O ₂ /g substance
ThOD	1.29 g O ₂ /g substance
02/08/2016	EN (Epolish)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ethylene glycol (107-21-1)		
BOD (% of ThOD)	0.36	
diethylene glycol (111-46-6)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil. Photolysis in the air.	
Biochemical oxygen demand (BOD)	0.02 g O ₂ /g substance	
Chemical oxygen demand (COD)	1.51 g O₂/g substance	
ThOD	1.51 g O₂/g substance	
BOD (% of ThOD)	0.02	

12.3. Bioaccumulative potential

denatonium benzoate (3734-33-6)		
BCF fish 1	1.4 - 3.6 (BCF; BCFBAF v3.00)	
Log Pow	1.78 (Estimated value)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
ethylene glycol (107-21-1)		
BCF fish 1	10.00 (BCF; 72 h)	
BCF other aquatic organisms 1	0.21 - 0.6 (BCF)	
BCF other aquatic organisms 2	190.00 (BCF; 24 h)	
Log Pow	-1.34 (Experimental value)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
diethylene glycol (111-46-6)		
BCF fish 1	100.00 (BCF; Other; 3 days; Leuciscus melanotus; Static system; Fresh water; Experimental value)	
Log Pow	-1.98 (Calculated; Other)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	

12.4. Mobility in soil

ethylene glycol (107-21-1)	
Surface tension	0.05 N/m (20 °C / 68 °F)
diethylene glycol (111-46-6)	
Surface tension	0.05 N/m
Log Koc	Koc,SRC PCKOCWIN v1.66; 1; Calculated value; log Koc; SRC PCKOCWIN v1.66; 0; Calculated value

12.5. Other adverse effects	
Effect on ozone layer	: No known effect on the ozone layer
Effect on global warming	: No known ecological damage caused by this product.
Other information	: Avoid release to the environment.
SECTION 13: Disposal consideratio	ns

SECTION 13. DIS	Sal considerations	
13.1. Waste treatm	nt methods	
Waste disposal recomm	dations : Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations.	
Ecology - waste materia	: Avoid release to the environment.	

SECTION 14: Transport information

Department of Transportation (DOT) In accordance with DOT Transport document description	: UN3082 Environmentally hazardous substances, liquid, n.o.s., 9, III	
UN-No.(DOT) Proper Shipping Name (DOT)	: UN3082 : Environmentally hazardous substances, liquid, n.o.s.	
02/08/2016	EN (English)	6/9

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Class (DOT)	: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
Hazard labels (DOT)	: 9 - Class 9 (Miscellaneous dangerous materials)
Packing group (DOT)	: III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155
DOT Quantity Limitations Passenger aircraft/rai (49 CFR 173.27)	I : No limit
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	9 : No limit
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel
Other information	: Non Bulk: Not regulated by the US D.O.T. (in quantities under 5,000 lbs in any one inner package).
TDG	
Refer to current TDG Canada for further Canad	ian regulations

Transport by sea

Proper Shipping Name (IMDG) : Not regulated by I	MDG (in quantities under 5,000 lbs in any one inner package)
Air transport Proper Shipping Name (IATA) : Not regulated by I	ATA (in quantities under 5,000 lbs in any one inner package)

SECTION 15: Regulatory informatio	n
I5.1. US Federal regulations	
C521 Yellow 50/50 Prediluted Antifreeze &	Coolant
EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed
denatonium benzoate (3734-33-6)	
Listed on the United States TSCA (Toxic Subs	stances Control Act) inventory
ethylene glycol (107-21-1)	
Listed on the United States TSCA (Toxic Subs Subject to reporting requirements of United St	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA
CERCLA RQ	5000 lb(s)
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard Ethylene glycol is subject to Tier I and/or Tier II annual inventory reporting
SARA Section 313 - Emission Reporting	Ethylene glycol is subject to Form R Reporting requirements.
diethylene glycol (111-46-6)	
Listed on the United States TSCA (Toxic Sub	stances Control Act) inventory

15.2. International regulations

CANADA

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

WHMIS Classification



EU-Regulations No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP] No additional information available

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Not classified

National regulations

C521 Yellow 50/50 Prediluted Antifreeze & Coolant DSL (Canada): The intentional ingredients of this product are listed ECL (South Korea): The intentional ingredients of this product are listed EINECS (Europe): The intentional ingredients of this product are listed ENCS (Japan): The intentional ingredients of this product are listed

15.3. US State regulations

California Proposition 65 - This product contains, or may contain, substance(s) known to the state of California to cause cancer, developmental toxicity and/or reproductive toxicity

ethylene glycol (107-21-1)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	Yes	No	No	

nylene glycol (107-21-1)
S Massachusetts - Right To Know List S New Jersey - Right to Know Hazardous Substance List S Pennsylvania - RTK (Right to Know) List
ethylene glycol (111-46-6)
S Pennsylvania - RTK (Right to Know) - Environmental Hazard List

SECTION 16: Other information

Full text of H-statements:

H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated
	exposure

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Health Flammability	 2 Moderate Hazard - Temporary or minor injury may occur 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 °F (93 °C). (Class IIIB)
	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,

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