

SAFETY DATA SHEET

1. Identification		
Product identifier	Oatey Clear Cleaner	
Other means of identification	-	
Product code	1400E	
Synonyms	Part Numbers: 30766, 30779, 30782, 30795, 30805, 3	32216, 32217, 32218, 32219
Recommended use	Cleaning PVC, CPVC or ABS pipe and fittings	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier	Distributor information	
Company Name	Oatey Inc.	
Address	4700 West 160th Street	
	Cleveland, OH 44135	
Telephone	216-267-7100	
E-mail	info@oatey.com	
Transport Emergency	Chemtrec 1-800-424-9300 (Outside the US 1-703-527	-3887)
Emergency First Aid	1-877-740-5015	
Contact person	MSDS Coordinator	
2. Hazard(s) identification		
Physical hazards	Flammable liquids	Category 2
Health hazards	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Aspiration hazard	Category 1
OSHA defined hazards	Not Classified	
Label elements		
Signal word	Danger	
Hazard statement	Highly flammable liquid and vapor. Harmful if swallow airways. Causes skin irritation. Causes serious eye ir	
Precautionary statement	May cause drowsiness or dizziness.	
Prevention	Keep away from heat/sparks/open flames/hot surface closed. Ground/bond container and receiving equipm electrical/ventilating/lighting equipment. Use only non measures against static discharge. Avoid breathing m handling. Do not eat, drink or smoke when using this ventilated area. Wear protective gloves/protective clo If swallowed: Immediately call a poison center/doctor.	ent. Use explosion-proof -sparking tools. Take precautionary hist or vapor. Wash thoroughly after product. Use only outdoors or in a well- thing/eye protection/face protection.
veshouse	contaminated clothing. Rinse skin with water/shower. keep comfortable for breathing. If in eyes: Rinse caut	If inhaled: Remove person to fresh air and

SDS US Page **1** of **9**

Storage	Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May form explosive peroxides.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Acetone	67-64-1	75-95
Cyclohexanone	108-94-1	1-5
Methy ethyl ketone	78-93-3	0-5

*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. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
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. If eye irritation persists: Get medical advice/attention.
Ingestion	Call a physician or poison control center immediately. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Aspiration may cause pulmonary edema and pneumonitis.
Most important	Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe
symptoms/effects, acute and delayed	eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Skin irritation. May cause redness and pain.
Indication of immediate medical	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with
attention and special treatment	water immediately. While flushing, remove clothes which do not adhere to affected area. Call an
Needed	ambulance. Continue flushing during transport to hospital. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	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. 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	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Highly flammable liquid and vapor. This product contains tetrahydrofuran that may form explosive organic peroxide when exposed to air or light or with age.

6. Accidental release measures

Personal precautions,	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out
protective equipment and	of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate
emergency procedures	area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist

Methods and materials for containment and cleaning up	or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.
	Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. 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. Prevent entry into waterways, sewer, basements or confined areas. 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.
	Never return spills to original container for reuse. For waste disposal, see sect. 13 of the SDS.
Environmental precautions 7. Handling and storage	Avoid discharge into drains, water courses or onto the ground.
Precautions for safe handling Conditions for safe storage,	Vapors may form explosive mixtures with air. 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. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge
including any incompatibilities	build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

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

Components	Туре	Value FORM
Acetone (CAS 67-64-1)	PEL	2400 mg/m3
		1000 ppm
Cyclohexanone (CAS 108-94-1)	PEL	200 mg/m3
		50 ppm
Methyl ethyl ketone (CAS 78-93-3)	PEL	590 mg/m3
		200 pp,
US. ACGIH Threshold Limit Values		
Components	Туре	Value FORM
Acetone (CAS 67-64-1)	STEL	750 ppm
	TWA	500 ppm
Cyclohexanone (CAS 108-94-1)	STEL	50 ppm
Methyl ethyl ketone (CAS 78-93-3)	STEL	300 ppm
	TWA	200 ppm
US. NIOSH: Pocket Guide to Chemical H	azards	
Components	Туре	Value

Acetone (CAS 67-64-1)	TWA	590 mg/m3
		250 ppm
Cyclohexanone (CAS 108-94-1)	TWA	100 mg/m3
		25 ppm
Methyl ethyl ketone (CAS 78-93-3)	STEL	885 mg/m3
		300 ppm
	TWA	590 mg/m3
		200 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*
Cyclohexanone (CAS 108-94	l-1) 80 mg/l 8 mg/l	1,2-Cyclohexanediol, with hydrolysis	Urine	*
Methyl ethyl ketone (CAS 78	-	Cyclohexanol, with hydrolysis MEK	Urine	*
*- For sampling details, see t	he source document.			
Exposure guidelines US - California OELs: Skin des Cyclohexanone (CAS 108-94 US - Minnesota Haz Subs: Skin Cyclohexanone (CAS 108-94 US - Tennessee OELs: Skin de Cyclohexanone (CAS 108-94 US ACGIH Threshold Limit Val Cyclohexanone (CAS 108-94 US. NIOSH: Pocket Guide to C Cyclohexanone (CAS 108-94 Appropriate engineering controls	 1) a designation applies 1) signation 1) ues: Skin designation 1) hemical Hazards 1) Explosion-proof generic changes per hour) shapplicable, use procemaintain airborne lev 	Can be absorbed throu Skin designation applie Can be absorbed throu Can be absorbed throu Can be absorbed throu can be absorbed throu eral and local exhaust ventilation. C nould be used. Ventilation rates sho ess enclosures, local exhaust venti rels below recommended exposure a airborne levels to an acceptable l	s. gh the skin. gh the skin. Good general ven buld be matched f lation, or other en e limits. If exposur	to conditions. If igineering controls to e limits have not been
Individual protection measures,	shower must be avail	lable when handling this product.		0 2
Eye/face protection		mended. Wear safety glasses with	side shields (or g	goggles).
Skin protection				
Hand	Wear appropriate chemical resistant gloves.			
Other	Wear appropriate chemical resistant clothing.			
Respiratory protection Thermal hazards	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn Wear appropriate thermal protective clothing, when necessary.			
General hygiene considerations	as washing after han	eat, drink or smoke. Always observ dling the material and before eatin ind protective equipment to remove	g, drinking, and/o	

9. Physical and chemical properties

Appearance	
Physical state	Liquid
Form	Liquid
Color	Clear
Odor	Solvent
Odor threshold	Not available.

pН	Not Applicable
Melting point/freezing point	Not available.
Initial boiling point and boiling	151 °F (66.11 °C)
range	
Flash point	0.0 – 4.0 °F (-18 to -15°C)
Evaporation rate	5.5 – 8
Upper/lower flammability or expl	osive limits
Flammability limit – lower (%)	2.0
Flammability limit – upper (%)	13.0
Explosive limit - lower (%)	Not Available
Explosive limit - upper (%)	Not Available
Vapor pressure	145 mmHg @ 20 C
Vapor density	2.5
Relative density	0.82 +/- 0.02
Solubility(ies)	
Solubility (water)	Negligible
Partition coefficient	
(n-octanol/water)	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	>150°C (>302°F)
Viscosity	Not Available
Other information	
Bulk Density	6.8 lb/gal
VOC (Weight %)	20g/L SCAQMD 1168/M24

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 reaction	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Acids. Strong oxidizing agents. Ammonia. Amines. Isocyanates. Caustics.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of e	xposure
Inhalation	May be fatal if swallowed and enters airways. Headache. Nausea, vomiting. May cause irritation to the respiratory system. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	May be fatal if swallowed and enters airways. Harmful if swallowed. Harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Symptoms related to the physical, chemical and toxicological characteristics	Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Information on likely routes of exposure Acute Toxicity

Components	Species	Results	
Acetone (CAS 67-64-1)			
Acute			
Dermal			
LD50	Rabbit	20 ml/kg	
Inhalation			
LC50	Rat	50 mg/l, 8 hours	
Oral			
LD50	Rat	58000 mg/kg	
Oatey Clear Cleaner			SDS US
			/ -

SDS # 1400E Version #: 01 Revision date: Issue date: 27-May-2015

Cyclohexanone (108-94-1) Acute Dermal LD50 Inhalation LC50 Oral LD50	Rabbit Rat Rat	8	948 mg/kg 9000 ppm, 4 hours 540 mg/kg
"Estimates for product may be base	ed on additional component data not	snown.	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitization Respiratory sensitization	Not available.		
Skin sensitization	This product is not expected to ca	use skin sensitization	1.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity			
Cyclohexanone (CAS 10 Polyvinyl chloride (CAS Silica, amorphous, fume	9002-86-2) d (CAS 112945-52-5) ated Substances (29 CFR 1910.100	3 Not classifiable a 3 Not classifiable a	as to carcinogenicity to humans. as to carcinogenicity to humans. as to carcinogenicity to humans.
Reproductive toxicity	This product is not expected to ca	use reproductive or d	levelopmental effects.
Specific target organ toxicity			
Single exposure Repeated exposure	Narcotic effects. May cause drowsiness and dizziness. Respiratory tract irritation. Not Classified.		
Aspiration Hazard	May be fatal if swallowed and enters airways.		
Chronic effects	Prolonged inhalation may be harmful.		
Further information	None noted.		
12. Ecological information			
Ecotoxicity	The product is not classified as e exclude the possibility that large effect on the environment.		have a harmful or damaging
Components	Species		Results
Acetone (CAS 67-64-1) Aquatic Fish – LC 50	Fathead minnow (I	Pimephales promelas	.) >100 mg/l, 96 hours

Aquatic		
Fish – LC 50	Fathead minnow (Pimephales promelas)	>100 mg/l, 96 hours
Cyclohexanone (108-94-1)		
Aquatic		
Fish – LC 50	Fathead minnow (Pimephales promelas)	481-578 mg/l, 96 hours
Development and degradability	No data ia available an the degradability of this product	
Persistence and degradability	No data is available on the degradability of this product	
Bio accumulative potential	No data is available.	
Partition coefficient n-octanol / w	vater (log Kow)	
Acetone (CAS 67-64-1)	-0.24	
Cyclohexanone (CAS 108-94-1)	0.81	
Methyl ethyl ketone (CAS 78-93-3)	0.29	
Mobility in soil	Not 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

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain

Local disposal regulations	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 or international regulations. Dispose in accordance with all applicable regulations.
Hazardous waste code	The 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	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transportation information

DOT

DOT	
UN number	UN1993
UN Proper Shipping Name	Flammable liquids, n.o.s. (Acetone RQ = 5128 LBS)
Transport Hazard class(es)	
Class	3
Subsidiary risk	3
Label(s)	
Packing group	II
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB2, T7, TP1, TP8, TP28
Packaging exceptions	150
Packaging non bulk	202
Packaging bulk	242
ΙΑΤΑ	
UN number	UN1993
UN Proper Shipping Name	Flammable liquid, n.o.s. (Acetone, Cyclohexanone)
Transport hazard class(es)	
Class	3
Subsidiary risk	
Packing group	II
Environmental hazards	No.
ERG Code	3H
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number	UN1993
UN Proper Shipping Name	Flammable liquid, n.o.s. (Acetone, Cyclohexanone)
Transport hazard class(es)	
Class	3
Subsidiary risk	
Packing group	II
Environmental hazards	
Marine polluntant	No.
EmS	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	Not available.

15. Regulatory information

io. Regulatory information	511	
U.S. Federal regulations		rdous Chemical" as defined by the OSHA Hazard Communication
	Standard, 29 CFR 1910	
TECA Spation (2/b) E		he U.S. EPA TSCA Inventory List.
	xport Notification (40 CFR	<i>101</i> , Subpt. D)
	gulated Substances (29 Cl	FR 1910.1001-1050)
Not listed.		
	Substance List (40 CFR 30	
Acetone (CAS		LISTED
	ne (CAS 108-94-1)	LISTED
	etone (CAS 78-93-3)	LISTED
Superfund Amendments and I		
Hazard categories	Immediate Hazard - Yes	3
	Delayed Hazard - No	
	Fire Hazard - Yes	
	Pressure Hazard - No	
	Reactivity Hazard – No	
SARA 302 Extremely	hazardous substance	
Not Listed		
SARA 311/312 Hazard	lous chemical	
No		
SARA 313 (TRI report		
Not regulated.		
Other federal regulations		
	Section 112 Hazardous Air	Pollutants (HAPs) List
Not regulated.		
		elease Prevention (40 CFR 68.130)
Not regulated.		
Safe Drinking Water		
Not regulated.	1	
Drug Enforcement Ad	Iministration (DEA), List 2.	Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and
Chemical Code Numb		
Acetone (CAS	s 67-64-1)	6532
Methyl ethyl k	etone (CAS 78-93-3)	6714
		& 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
Acetone (CAS	67-64-1)	35 %WV
Methyl ethyl k	etone (CAS 78-93-3)	35 %WV
DEA Exempt Chemica	al Mixtures Code Number	
Acetone (CAS	\$ 67-64-1)	6532
Methyl ethyl k	etone (CAS 78-93-3)	6714
US state regulations		
US. Massachusetts R	TK - Substance List	
Acetone (CAS		
	ne (CAS 108-94-1)	
	etone (CAS 78-93-3)	
	er and Community Right-t	o-Know Act
Acetone (CAS		
	ne (CAS 108-94-1)	
	etone (CAS 78-93-3)	
	rker and Community Right	i-to-Know Law
Acetone (CAS		
	ne (CAS 108-94-1)	
	etone (CAS 78-93-3)	
US. Rhode Island RTI		
Acetone (CAS		
	ne (CAS 108-94-1)	
Methyl ethyl k	etone (CAS 78-93-3)	
US. California Propos	ition 65	

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories Country(s) or region Canada United States & Puerto Rico

Inventory name Domestic Substances List (DSL) Toxic Substances Control Act (TSCA) Inventory On inventory (yes/no)* Yes No

*A "Yes" indicates this product complies 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).

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

Issue Date	05-27-2015
Revision Date	-
Version #	01
HMIS Rating	Health: 2 Flammability: 3
	Physical Hazards: 0
NFPA ratings	

Disclaimer

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