

# Safety Data Sheet

Product Name: Super Build 4:1 Catalyst

Product identifier: 100733

Revision Date: 12-15-2016

Replaces:



## 1. Identification

Product identifier used on the label:

Product Name: Super Build 4:1 Catalyst

Product identifier: 100733

Other means of identification

Synonyms: No data available

Recommended use of the chemical and restrictions on use: Polymerization initiator/catalyst

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Chemical Manufacturer /  
Importer / Distributor: ITW Evercoat  
a division of Illinois Tool Works Inc.  
6600 Cornell Road  
Cincinnati, OH 45242  
513-489-7600

Emergency phone number: CHEMTREC: 1-800-424-9300  
CANUTEC: 1-613-996-6666

## 2. Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Hazard  
Symbols:



GHS Classification: Serious Eye Damage/Eye Irritation Category 1  
Flammable Liquid Category 2  
Skin Corrosion/Irritation Category 2  
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3  
Hazardous to the aquatic environment - Acute Category 3

GHS Signal Word: Danger

GHS Hazard Statements: Highly flammable liquid and vapour.  
Causes skin irritation.  
Causes serious eye damage.  
May cause drowsiness or dizziness.  
Harmful to aquatic life.

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## GHS Precautionary Statements:

### Safety Precautions:

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.

### First Aid Measures:

IF ON SKIN: Wash with plenty of soap and water.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.  
Rinse skin with water/shower.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER/doctor  
Call a POISON CENTER or doctor/physician if you feel unwell.  
Specific treatment (see on this label).  
If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
In case of fire: Use appropriate media to extinguish.

### 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 regulation for hazardous wastes.

### Hazards not otherwise classified:

No data available

## 3. Composition/information on ingredients

Chemical Component:	CAS number and other unique identifiers	% (or range) of ingredient
Methyl acetate	79-20-9	40 - 70
Dimethyl Phthalate	131-11-3	1 - 5
Methyl Ethyl Ketone Peroxide	1338-23-4	1 - 5

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

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## 4. First-aid measures

Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion:

**Eye Contact:** Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention. If the victim is wearing contact lenses, remove them. Flush eyes gently with water for at least 15 minutes, lifting upper & lower eye lids. Ensure adequate flushing by separating the eyelids with fingers. Seek medical advice if symptoms persist

**Skin Contact:** Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists. Remove contaminated clothing and continue flushing with water. Wash affected area thoroughly with soap and water. Seek medical advice if symptoms persist

**Inhalation:** Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately. Remove to fresh air, if coughing, breathing becomes labored, irritation develops or other symptoms develop, seek medical attention at once, even if symptoms develop several hours after the exposure.

**Ingestion:** Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this MSDS. Call a physician or poison control center immediately. Do not induce vomiting unless directed to do so by medical personnel. Drink plenty of water.

**Most important symptoms/effects, acute and delayed:**

**Most important symptoms/effects (Acute):** No data available

**Most important symptoms/effects (Delayed):** There are no known medical conditions, which are recognized as being aggravated by exposure

**Indication of immediate medical attention and special treatment needed, if necessary:** No additional first aid information available

## 5. Fire-fighting measures

**Suitable (and unsuitable) extinguishing media:**

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**Suitable extinguishing media:** Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire. Regular foam Carbon dioxide Dry chemical

**Unsuitable extinguishing media:** No data available

## Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

**Fire and/or Explosion Hazards:** Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back

**Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide, Benzoic acid, Hydrocarbons

**Special protective equipment and precautions for fire-fighters:** Do not enter fire area without proper protection including self-contained toxic breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling. Water from a safe distance - preferably with a fog nozzle. In case of very small fires, other means such as carbon dioxide, foam or dry chemical extinguishers may be effective.

## 6. Accidental release measures

**Personal precautions, protective equipment, and emergency procedures:** Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

**Methods and materials for containment and cleaning up:** Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Dike area to contain the spill and prevent releases to sewers, drains or other waterways. Wet spilled material with water and absorb with an inert absorbent material such as perlite, vermiculite, or sand. Sweep up absorbed material and place in a chemical waste container for disposal. DO NOT place into a steel container, lined or unlined, as decomposition may

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occur. Treat any contaminated cardboard packaging as hazardous waste. Wet container contents with additional water prior to sealing.

## 7. Handling and storage

**Precautions for safe handling:** Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Rotate stock using the oldest material first. Keep container closed when not in use. Reseal containers immediately after use to prevent contamination and drying DO NOT USE NEAR FOOD OR DRINK. Do not get in eyes, on skin and clothing Follow all protective equipment recommendations provided in Section VIII. Wash hands before eating Keep out of the reach of children.

### Conditions for safe storage, including any incompatibilities

**Conditions for safe storage:** Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. The stability of MEKP formulations is directly related to the shipping and storage temperature history. Cool storage at 80°F or below is recommended for longer shelf life and stability. Prolonged storage at elevated temperatures of 100°F and higher will cause product degradation, gassing and potential container rupture which can result in a fire and/or explosion. Store out of direct sunlight in a well ventilated area away from combustible and incompatible materials. Keep away from food and drinking water. Refer to NFPA 432 Code for the Storage of Organic Peroxide Formulations from the National Fire Protection Association for additional storage information.

**Materials to Avoid/Chemical Incompatibility:** Contamination Direct sunlight. Open flames. Prolonged storage above 100°F (38°C). Storage above SADT. Storage near flammable or combustible materials.

## 8. Exposure controls/personal protection

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available:

Chemical Component	OSHA PEL	ACGIH TLV-TWA	ACGIH STEL
Methyl acetate	200 ppm	200 ppm	250 ppm STEL; 757 mg/m <sup>3</sup> STEL
Dimethyl Phthalate	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	No data available
Methyl Ethyl Ketone Peroxide	No data available	0.2 ppm Ceiling	No data available

**Appropriate engineering controls:** No exposure limits exist for the constituents of this product. Use local exhaust ventilation or other engineering controls to minimize

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exposures and maintain operator comfort. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits Facilities storing or using this material should be equipped with an eyewash and safety shower.

## Individual protection measures, such as personal protective equipment:

### Eye Protection:

Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses. Safety glasses in compliance with OSHA regulations are recommended. An eye wash station must be available where this product is used.

### Skin Protection:

Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Protective gloves recommended, solvent resistant, such as butyl rubber, nitrile or neoprene.

### Respiratory Protection:

Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use

### Other Protective Equipment:

Safety glasses in compliance with OSHA regulations are recommended. An eye wash station must be available where this product is used. Protective gloves recommended, solvent resistant, such as butyl rubber, nitrile or neoprene.

## 9. Physical and chemical properties

### Appearance (physical state, color, etc.):

Appearance (physical state):

Liquid

Color:

Clear

Odor:

None to very faint

Odor threshold:

No data available

pH:

No data available

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<b>Melting Point/Freezing Point (°C):</b>	No data available
<b>Initial Boiling Point and Boiling Range (°C):</b>	57
<b>Flash Point (°C):</b>	-10
<b>Evaporation Rate:</b>	No data available
<b>Flammability (solid, gas):</b>	No data available
<b>Upper/lower flammability or explosive limits:</b>	
Upper Flammable/Explosive Limit (%):	16
Lower Flammable/Explosive Limit (%):	3.1
<b>Vapor Pressure:</b>	No data available
<b>Vapor Density:</b>	>1
<b>Relative Density:</b>	1.04
<b>Solubility(ies):</b>	Moderate; 50-99%
<b>Partition coefficient: n-octanol/water:</b>	No data available
<b>Auto-ignition Temperature (°C):</b>	No data available
<b>Decomposition Temperature:</b>	No data available
<b>Viscosity:</b>	0.38
<b>VOC (as packaged-less exempts and water):</b>	or 0.335 g/L
<b>VOC (as applied* - 2% by wt hardener- less exempts and water):</b>	0.73 lbs/gal or 87.5 g/L
<b>Percent Solids by weight – as packaged:</b>	21.30
<b>Percent Solids by weight – as applied* - 2% by wt hardener:</b>	71.00
<b>VHAP Content by weight – as packaged:</b>	4
<b>VHAP Content by weight – as applied* - 2% by weight hardener:</b>	5.91

## 10. Stability and reactivity

<b>Reactivity:</b>	No data available
<b>Chemical stability:</b>	Stable under normal conditions. Keep container closed when not in use.
<b>Possibility of hazardous reactions:</b>	No data available
<b>Conditions to avoid (e.g., static discharge, shock, or vibration):</b>	Contamination
<b>Incompatible materials:</b>	Contamination Direct sunlight. Open flames. Prolonged storage above 100°F (38°C). Storage above SADT. Storage near flammable or combustible materials.
<b>Hazardous decomposition products:</b>	Flammable products Acrid smoke Irritating fumes

## 11. Toxicological information

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**Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):** Ingestion, Skin contact, Eye contact, Absorption

**Symptoms related to the physical, chemical and toxicological characteristics:** No data available

**Delayed and immediate effects and also chronic effects from short- and long-term exposure:**

**Immediate (Acute) Health Effects by Route of Exposure:**

**Inhalation Irritation:** Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Moderately toxic.

Prolonged inhalation of vapors may cause mucous membrane irritation and vertigo.

**Inhalation Toxicity:** Harmful! Can cause systemic damage (see "Target Organs")

**Skin Contact:** Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

**Skin Absorption:** Contact with skin can cause irritation, (minor itching, burning and /or redness), Dermatitis, Defatting may be readily absorbed through the skin.

**Eye Contact:** Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue. Corrosive. May cause severe damage including blindness

**Ingestion Irritation:** Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea. Human systemic effects by ingestion: changes in structure or function of esophagus, nausea, or vomiting, and other gastrointestinal effects.

**Ingestion Toxicity:** Harmful if swallowed. May cause systemic poisoning.

**Long-Term (Chronic) Health Effects:**

**Carcinogenicity:** None of the substances have been shown to cause cancer in long term animal studies. Not a carcinogen according to NTP, IARC, or OSHA. Not listed by ACGIH, IARC, NIOSH, NTP OR OSHA.

**Reproductive and Developmental Toxicity:** No data available to indicate product or any components present at greater than 0.1% may cause birth defects.

**Mutagenicity:** No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

**Inhalation:** Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs")

**Skin Contact:** Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

**Numerical measures of toxicity (such as acute toxicity estimates)**

**Component Toxicology Data**

Chemical Component	Oral LD50	Dermal LD50	Inhalation LC50
Methyl Ethyl Ketone Peroxide	Oral LD50 Rat 484 mg/kg		Inhalation LC50 (4h) Rat 200 ppm



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Whether the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA

Chemical Name	OSHA Carcinogen	IARC Carcinogen	NTP Carcinogen
No data available	N	N	N

## 12. Ecological information

<b>Ecotoxicity (aquatic and terrestrial, where available):</b>	Harmful to aquatic life. Toxic to aquatic life. This material is toxic to aquatic organisms and should not be released to sewage, draining systems or any body of water exceeding concentrations of approved limits under applicable regulations and permits.
<b>Persistence and degradability:</b>	No data available
<b>Bioaccumulative potential:</b>	No data
<b>Mobility in soil:</b>	No data available
<b>Other adverse effects (such as hazardous to the ozone layer):</b>	No data available

### Ecological Toxicity Data

Chemical Component	Aquatic EC50 Crustacea	Aquatic ERC50 Algae	Aquatic LC50 Fish
No data available			

## 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

<b>Description of waste residues:</b>	Spent or discarded material is a hazardous waste.
<b>Safe Handling of Waste:</b>	This material as supplied, if discarded, would be regulated as a hazardous waste under RCRA (40 CFR 261).
<b>Waste treatment methods (including packaging):</b>	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
<b>Waste Disposal Code(s):</b>	D001

## 14. Transport information

<b>UN number:</b>	UN1993
<b>UN proper shipping name:</b>	FLAMMABLE LIQUID N.O.S. (METHYL ACETATE)
<b>Transport hazard class(es):</b>	3
<b>Packing group:</b>	II

The shipper is responsible for following all applicable regulations. The transportation classification provided is based on ITW Evercoat original packaging, which is suitable for domestic ground transport only.

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## 15. Regulatory information

Safety, health and environmental regulations specific for the product in question

TSCA Status: The intentional ingredients of this product are listed.

### Regulated Components

Chemical Component	CAS number and other unique identifiers	CERCLA	SARA EHS	SARA 313	California Prop 65
Methyl Ethyl Ketone Peroxide	1338-23-4	N	N	Y	N
Methyl ethyl ketone	78-93-3	N	N	Y	N

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

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**Disclaimer:** NOTICE: The information accumulated herein is believed to be correct as of the date issued from sources, which are believed to be accurate and reliable. Since it is not possible to anticipate all circumstances of use, recipients are advised to confirm, in advance of need, that the information is current, applicable and suitable to their circumstances