

## Safety Data Sheet

### according to HPR, Schedule 1

Date of issue 11/19/2025

Version number 4.0

Revision: 11/19/2025

### 1 Identification

**Product identifier**
**Trade name:** Hardener for 2K Wood Oil (6633)

**CAS Number:** 28182-81-2

**Other means of identification**
**Article number:** 6633

**NLP Number:** 500-060-2

**Application of the substance**
**/ the mixture** Hardening agent/ Curing agent

**Details of the supplier of the safety data sheet**
**Manufacturer/Supplier:**
**Supplier**

 Osmo Wood and Colour Canada Ltd.  
 420 Thompson Drive - Unit 2  
 N1T 2K8 Cambridge, ON  
 Canada  
 Tel: +1-844-OSMOCAN  
 E-mail: info@osmo.ca

**Manufacturer**

 Osmo Holz und Color GmbH & Co. KG  
 Affhüppen Esch 12  
 D-48231 Warendorf

**Information department:**

 Product safety department  
 Tel.: +49 (0) 251 / 692 - 188  
 Fax: +49 (0) 251 / 692 - 462  
 e-mail: helmut.starp@osmo.de

**Emergency telephone number:**

 24h-Emergency Phone Number:  
 For Chemical Emergency, Spill; Leak; Fire Exposure or Accident Call Day or  
 Night within USA and Canada 1-800-424-9300  
 Outside USA and Canada 001-703-527-3887 (CCN 16475)

### 2 Hazard identification

**Classification of the substance or mixture**

Acute Toxicity (Inhalation) - Category 4

H332 Harmful if inhaled.

Sensitization - skin – Category 1

H317 May cause an allergic skin reaction.

 Specific target organ toxicity (single exposure) –  
 Category 3

H335 May cause respiratory irritation.

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

**Label elements**
**Hazard pictograms**


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**Signal word**

Warning

**Hazard-determining****components of labeling:**
 Hexamethylene diisocyanate, oligomers  
 hexamethylene-di-isocyanate
**Hazard statements**
 H332 Harmful if inhaled.  
 H317 May cause an allergic skin reaction.  
 H335 May cause respiratory irritation.
**Precautionary statements**
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P271 Use only outdoors or in a well-ventilated area.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P280 Wear protective gloves.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P312 Call a POISON CENTER/doctor if you feel unwell.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P321 Specific treatment (see on this label).  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with national regulations.
**Information pertaining to particular dangers for man and environment:****Classification system:****NFPA ratings (scale 0 - 4)**
 Health = 1  
 Fire = 1  
 Reactivity = 0  
 Health = 1  
 Fire = 1  
 Reactivity = 0
**HMIS-ratings (scale 0 - 4)**
 Health = 1  
 Fire = 1  
 Reactivity = 0
**Other hazards**
 Always wear a dust mask when sanding.  
 Observe the general safety regulations when handling chemicals.  
 In case of hypersensitivity of the respiratory tract (asthma, chronic bronchitis), handling of the product is not recommended.  
 Respiratory symptoms may occur even several hours after overexposure.  
 Dust, vapors and aerosols are the main respiratory hazards.

### 3 Composition/Information on ingredients

**Chemical characterization: Substances**
**CAS No. Description**      28182-81-2 Hexamethylene diisocyanate, oligomers

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**Identification number(s)****NLP Number:** 500-060-2**Impurities and stabilising additives:**

CAS: 822-06-0 hexamethylene-di-isocyanate

 Acute Toxicity (Dermal) – Category 3, H311; Acute Toxicity (Inhalation) - Category 3, H331;  Sensitization - respiratory – Category 1, H334;  Acute Toxicity (Oral) - Category 4, H302; Skin Irritation - Category 2, H315; Eye damage/irritation – Category 2A, H319; Sensitization - skin – Category 1, H317; Specific target organ toxicity (single exposure) – Category 3, H335  
 Specific concentration limits: Respiratory Sensitizer - Category 1; H334: C ≥ 0.5 %  
 Skin Sensitizer - Category 1; H317: C ≥ 0.5 %

**Description:** Substance

#### 4 First-aid measures

**Description of first aid measures****General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**After inhalation:**

Take affected persons into fresh air and keep quiet.

Seek medical treatment in case of complaints.

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

If skin irritation or rash occurs: Get medical advice/attention.

**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:**

Rinse mouth.

Seek medical treatment.

**Most important symptoms  
and effects, both acute and  
delayed**

No further relevant information available.

**Indication of any immediate  
medical attention and special  
treatment needed**

No further relevant information available.

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### 5 Fire-fighting measures

**Extinguishing media**
**Suitable extinguishing**
**agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.  
Use fire fighting measures that suit the environment.

**For safety reasons unsuitable**
**extinguishing agents:**

Water with full jet

**Special hazards arising from  
the substance or mixture**

Isocyanate vapors  
Nitrogen oxides (NO<sub>x</sub>)  
(Traces)  
Hydrogen cyanide (HCN)

**Advice for firefighters**
**Protective equipment:**

Wear fully protective suit.  
Mouth respiratory protective device.

**Additional information**

Collect contaminated fire fighting water separately. It must not enter the sewage system.  
Cool endangered receptacles with water spray.

### 6 Accidental release measures

**Personal precautions,  
protective equipment and  
emergency procedures**

Wear protective clothing.

**For non-emergency  
personnel**

No action shall be taken involving any personal risk or without suitable training.

**For emergency responders**

Wear protective equipment. Keep unprotected persons away.

**Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

**Methods and material for**
**containment and cleaning up:**

Remove mechanically; cover residues with moist, liquid-binding material (e.g. sawdust, calcium silicate hydrate-based chemical binder, sand). After about 1 hour, take up in waste container, do not close (CO<sub>2</sub> evolution!). Keep moist and leave in a safe place outdoors for several days.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).  
Dispose of the collected material according to regulations.  
Dispose contaminated material as waste according to section 13.  
Ensure adequate ventilation.

**Reference to other sections**

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

### 7 Handling and storage

**Precautions for safe handling** Spraying requires the extraction of air.  
 The air limit values mentioned in Chapter 8 must be observed. In workplaces where aerosols and/or vapours of isocyanates may occur in higher concentrations, targeted air pollution control must be used to avoid exceeding the occupational hygiene limit value. Air movement must be kept away from people.  
 The personal protection measures described in Chapter 8 must be followed. When handling isocyanates, the required protective measures must be observed. Avoid contact with skin and eyes and inhalation of vapours. Ensure good ventilation/exhaustion at the workplace.  
 Open and handle receptacle with care.  
 Prevent formation of aerosols.  
 Avoid contact with skin and eyes.

**General protective and hygienic measures:** Be sure to clean skin thoroughly after work and before breaks. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working. Do not carry product impregnated cleaning cloths in trouser pockets.

**Information about protection against explosions and fires:** Fumes can combine with air to form an explosive mixture.

#### Conditions for safe storage, including any incompatibilities

##### Storage:

##### Requirements to be met by

**storerooms and receptacles:** Prevent any seepage into the ground.  
 Store only in the original receptacle.

**Information about storage in one common storage facility:** Store away from foodstuffs.

##### Further information about

**storage conditions:** Store receptacle in a well ventilated area.  
 Store in dry conditions.  
 Keep receptacle tightly sealed.  
 Store in cool, dry conditions in well sealed receptacles.

**Storage class:** 10

**Specific end use(s)** No further relevant information available.

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### 8 Exposure controls/ Personal protection

#### Control parameters

#### Components with limit values that require monitoring at the workplace:

**CAS: 822-06-0 hexamethylene-di-isocyanate (<0.1%)**

EV (Canada)	TWA: 0.005 ppm Ceiling: 0.02 ppm
TWA (Canada)	TWA: 0.005 ppm Ceiling: 0.01 ppm S(R)
REL (USA)	TWA: 0.035 mg/m <sup>3</sup> , 0.005 ppm Ceiling: 0.14* mg/m <sup>3</sup> , 0.02* ppm *10-min
TLV (USA)	TWA: 0.005 ppm BEI

**Additional information:** The lists that were valid during the creation were used as basis.

#### Exposure controls

#### Personal protective equipment:

#### General protective and hygienic measures:

Wash hands before breaks and at the end of work.  
 Keep away from foodstuffs, beverages and feed.  
 Avoid contact with the eyes and skin.  
 Immediately remove all soiled and contaminated clothing.  
 The usual precautionary measures for handling chemicals should be followed.  
 Store protective clothing separately.  
 Do not eat, drink, smoke or sniff while working.  
 See Section 7 for information on safe handling.

#### Breathing equipment:

In the case of respiratory and skin hypersensitivity (asthma, chronic bronchitis, chronic skin diseases), handling of the product is not recommended.  
 Not necessary if room is well-ventilated.  
 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.  
 Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

#### Protection of hands:

Protective gloves  
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

Butyl rubber, BR

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**Penetration time of glove material**

Fluorocarbon rubber (Viton)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**For the permanent contact gloves made of the following materials are suitable:**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

chemical resistant gloves (EN 374)  
Butyl rubber, BR

**Not suitable are gloves made of the following materials:**

Nitrile rubber, NBR

**Eye protection:**

Face protection  
Schutzbrille mit Seitenschutz (Gestellbrille) (z.B. EN 166)

**Body protection:**

Use protective suit.  
Protective work clothing

## 9 Physical and chemical properties

**Information on basic physical and chemical properties**
**General Information**
**Physical state**

Liquid

**Color:**

Colorless

**Odor:**

Nearly odorless

**Odor threshold:**

Not determined.

**Melting point/Melting range:**

Undetermined.

**Boiling point/Boiling range:**

Not applicable

**Flammability:**

Not applicable.

**Explosion limits:**
**Lower:**

Not determined.

**Upper:**

Not determined.

**Flash point:**

~158 °C (DIN 53213, CAS: 28182-81-2 Hexamethylene diisocyanate, oligomers)

**Auto igniting:**

~445 °C (DIN 51794, CAS: 28182-81-2 Hexamethylene diisocyanate, oligomers)

**Decomposition temperature:**

Not determined.

**pH-value:**

Not applicable

Mixture is non-polar/aprotic.

**Viscosity:**
**Dynamic at 20 °C:**

~1,200 mPas (DIN EN ISO 3219/A.3)

**Solubility in / Miscibility with Water:**

Not miscible or difficult to mix.

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<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Vapor pressure at 20 °C:</b>	<0.00003 hPa (EG A4, CAS: 28182-81-2 Hexamethylene diisocyanate, oligomers)
<b>Vapor pressure:</b>	
<b>Density at 20 °C:</b>	~1.17 g/cm <sup>3</sup> (DIN 53217)
<b>Relative density</b>	Not determined.
<b>Particle characteristics</b>	Not applicable.
<b>Other information</b>	
<b>Appearance:</b>	
<b>Form:</b>	Fluid
<b>Important information on protection of health and environment, and on safety.</b>	
<b>Ignition temperature:</b>	Not determined.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>VOC content:</b>	0.00 %
<b>Change in condition</b>	
<b>Evaporation rate</b>	Not determined.

### 10 Stability and reactivity

<b>Reactivity</b>	No further relevant information available.
<b>Chemical stability</b>	
<b>Thermal decomposition / conditions to be avoided:</b>	No decomposition if used and stored according to specifications.
<b>Possibility of hazardous reactions</b>	Reacts with alcohols. Reacts with amines. Decomposes with water, acids and alkalis. Exothermic reaction. Danger of bursting.
<b>Conditions to avoid</b>	No further relevant information available.
<b>Incompatible materials:</b>	No further relevant information available.
<b>Hazardous decomposition products:</b>	No hazardous decomposition products when stored and handled correctly.

### 11 Toxicological information

#### Information on toxicological effects

##### Acute toxicity:

##### LD/LC50 values that are relevant for classification:

Inhalative	ATE-Wert (Nebel)	1.5 mg/l (rat)
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**CAS: 28182-81-2 Hexamethylene diisocyanate, oligomers**

Oral	LD50	>2,500 mg/kg (rat) (OECD 423)
Dermal	LD50	>2,000 mg/kg (rat) (Acute Dermal Toxicity)
Inhalative	LC50 / 4h	11 mg/l (ATE)

**Primary irritant effect:**
**on the skin:**
**CAS: 28182-81-2 Hexamethylene diisocyanate, oligomers**

Dermal	Skin irritation	(rabbit) (OECD- Prüfrichtlinie 404)
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**on the eye:**
**CAS: 28182-81-2 Hexamethylene diisocyanate, oligomers**

Eye irritation	(rabbit)
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**Sensitization:**

May cause an allergic skin reaction.

**CAS: 28182-81-2 Hexamethylene diisocyanate, oligomers**

Inhalative	Sensibilisierung	(mouse) (Lokaler Lymphknoten-Test (LLNA))
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**Other information (about experimental toxicology):**

Animal tests and other research indicate that skin contact with diisocyanates can play a role in causing isocyanate sensitization and respiratory reaction.

**Subacute to chronic toxicity:**
**CAS: 28182-81-2 Hexamethylene diisocyanate, oligomers**

NOAEL	3.3 mg/Tag /inhalativ (rat)
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**Additional toxicological information:**

Special properties/effects: Over-exposure, especially when spraying coatings containing isocyanate without the necessary precautions, entails the risk of concentration-dependent irritating effects on eyes, nose throat, and respiratory tract. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible. Hypersensitive persons may suffer from these effects even at low isocyanate concentrations, including concentrations below the UK Workplace Exposure Limit (WEL). Prolonged contact with the skin may cause tanning and irritant effects.

May cause an allergic skin reaction.

**Carcinogenic categories**
**IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.
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**NTP (National Toxicology Program)**

None of the ingredients is listed.

## 12 Ecological information

**Toxicity**
**Aquatic toxicity:** Do not allow product to reach ground water, water course or sewage system.

**CAS: 28182-81-2 Hexamethylene diisocyanate, oligomers**

EC50 / 48h	>100 mg/l (Daphnia magna) (OECD- Prüfrichtlinie 202)
IC50 / 72h	>1,000 mg/l (algae) (DIN 38412)
LC50 / 96h	>100 mg/l (Brachydanio rerio) (OECD- Prüfrichtlinie 203)
biodegradability	28 % (OECD Guideline for Testing of Chemicals, No.301 D)
Biokonz.-Faktor	3.2 /(berechnet)

**Persistence and degradability** Not easily biodegradable

**Bioaccumulative potential**
**CAS: 28182-81-2 Hexamethylene diisocyanate, oligomers**

log POW ~8.38 (Wert berechnet)

**Mobility in soil** No further relevant information available.

**Results of PBT and vPvB assessment**
**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects**
**Behavior in sewage processing plants:**
**CAS: 28182-81-2 Hexamethylene diisocyanate, oligomers**

EC0 / 3h	>100 mg/l (Daphnia magna)
EC50	3,828 mg/l (activated sludge organism) (OECD Guideline for Testing of Chemicals, No.209)

**Additional ecological information:**

**General notes:** The resin reacts with water at the interface forming CO<sub>2</sub> and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by watersoluble solvents. Previous experience shows that polyurea is inert and non-degradable.

Water hazard class 1 (Assessment by list): slightly hazardous for water

## 13 Disposal considerations

**Waste treatment methods**
**Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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Disposal must be made according to official regulations.

**Uncleaned packagings:****Recommendation:****Waste treatment methods:**

After final product withdrawal, all residues must be removed from containers (drip-free, powderfree or paste-free). Once the product residues adhering to the walls of the containers have been rendered harmless, the product and hazard labels must be invalidated. These containers can be returned for recycling to the appropriate centres set up within the framework of the existing takeback scheme of the chemical industry. Containers must be recycled in compliance with national legislation and environmental regulations.

#### 14 Transport information

<b>UN-Number</b> <b>DOT/TDG, ADR, ADN, IMDG, IATA</b>	Not applicable
<b>UN proper shipping name</b> <b>DOT/TDG, ADR, ADN, IMDG, IATA</b>	Not applicable
<b>Transport hazard class(es)</b> <b>DOT/TDG, ADR, ADN, IMDG, IATA</b> <b>Class</b>	Not applicable
<b>Packing group</b> <b>DOT/TDG, ADR, IMDG, IATA</b>	Not applicable
<b>Environmental hazards:</b> <b>Marine pollutant:</b>	No
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>Transport/Additional information:</b>	Special precautions for user : Not dangerous cargo. Slight smell. Keep dry. Avoid heat above +50 °C. Keep away from foodstuffs, acids and alkalis.
<b>Special precautions for user</b>	Not applicable.
<b>UN "Model Regulation":</b>	Not applicable

#### 15 Regulatory information

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**Safety, health and  
environmental regulations/  
legislation specific for the  
substance or mixture  
Sara**

No further relevant information available.

**Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

**Section 313 (Specific toxic chemical listings):**

CAS: 822-06-0 | hexamethylene-di-isocyanate

**TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

**Canadian substance listings:**
**Canadian Domestic Substances List (DSL)**

All ingredients are listed.

**Canadian Non-Domestic Substances List (NDSL)**

None of the ingredients is listed.

**Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

**Canadian Ingredient Disclosure list (limit 1%)**

None of the ingredients is listed.

**GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms**


GHS07

**Signal word**

Warning

**Hazard-determining  
components of labeling:**
Hexamethylene diisocyanate, oligomers  
hexamethylene-di-isocyanate
**Hazard statements**
H332 Harmful if inhaled.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.
**Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P271 Use only outdoors or in a well-ventilated area.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P280 Wear protective gloves.

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P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with national regulations.

**Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

**Recommended restriction of use**

The product is used as a hardener in coating materials. Appropriate protective measures are required to deal with coating materials that contain reactive polyisocyanates and residual monomeric HDI (see also this safety data sheet). They may therefore only be used in industrial or professional applications. They are not suitable for use in do-it-yourself applications.

**Department issuing SDS:**

product safety department

**Contact:**

Hr. Dr. Starp

**Version number of previous version:**

3.0

**Date of preparation**

11/19/2025

**Abbreviations and acronyms:**

ICAO: International Civil Aviation Organisation

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

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**Sources**

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ESIS : European chemical Substances Information System

ECHA Portal

Safety data sheets from raw material suppliers

**\* Data compared to the  
previous version altered.**

Additions, deletions, revisions